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ON THE EXACT JOINT DISTRIBUTIONS OF THE  
EXTREME ROOTS OF THE COMPLEX WISHART  
AND MULTIVARIATE BETA MATRICES

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## PREFACE

This report was prepared for the Applied Mathematics Research Laboratory, Aerospace Research Laboratories by P. R. Krishnaiah and F. J. Schuurmann under Project 7071, "Research in Applied Mathematics". The work of F. J. Schuurmann was performed at the Aerospace Research Laboratories while in the capacity of a Technology, Incorporated Visiting Research Associate under contract F33615-71-C-1463; he is currently on leave of absence from Miami University, Oxford, Ohio.

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## SECTION I

### INTRODUCTION

The joint distribution of the extreme roots of the complex Wishart matrix is useful in testing the hypothesis that the spectral density matrix of a stationary Gaussian, multiple time series is equal to a known matrix against two-sided alternatives. Similarly, the joint density of the extreme roots of a complex multivariate beta matrix is useful in finding out whether the spectral density matrices of two Gaussian, stationary, multiple time series are the same. In this paper, the authors tabulated the percentage points associated with the joint distributions of the extreme roots of the complex Wishart and multivariate beta matrices. The applications of these tables are also discussed.

## SECTION II

### JOINT DISTRIBUTIONS OF THE EXTREME ROOTS OF THE COMPLEX WISHART AND MULTIVARIATE BETA MATRICES

Let  $S_1$  and  $S_2$  be distributed independently as central complex Wishart matrices with  $n_1$  and  $n_2$  degrees of freedom and let  $E(S_i/n_i) = \Sigma_i$  for  $i = 1, 2$ . Also, let  $\lambda_1 < \dots < \lambda_p$  be the latent roots of  $S_1$  and let  $\theta_1 < \dots < \theta_p$  denote the roots of  $S_1(S_1 + S_2)^{-1}$ . When  $\Sigma_1 = I_p$ , where  $I_p$  is an identity matrix, the joint density of  $\lambda_1, \dots, \lambda_p$  is known [1,2] to be

$$f(\lambda_1, \dots, \lambda_p) = C_1 \prod_{i=1}^p \{\lambda_i^r \exp(-\lambda_i)\} \prod_{i>j} (\lambda_i - \lambda_j)^2 \quad (1)$$

$$0 \leq \lambda_1 \leq \dots \leq \lambda_p \leq \infty,$$

where

$$C_1 = 1 / \prod_{i=1}^p \{\Gamma(i) \Gamma(n_1 - p + i)\}, \quad r = n_1 - p.$$

When  $\Sigma_1 = \Sigma_2$ , the joint density of  $\theta_1, \dots, \theta_p$  is known [1,2] to be

$$g(\theta_1, \dots, \theta_p) = C_2 \left\{ \prod_{j=1}^p \theta_j^r (1 - \theta_j)^n \right\} \prod_{i>j} (\theta_i - \theta_j)^2, \quad (2)$$

$$0 \leq \theta_1 \leq \dots \leq \theta_p \leq 1$$

where  $n = n_2 - p$  and

$$C_2 = \prod_{j=1}^p \{\Gamma(r+n+p+j) / \Gamma(r+j) \Gamma(n+j)\}.$$

It is seen that

$$P[c_1 \leq \lambda_1 \leq \lambda_p \leq c_2] = C_1 |(a_{ij})| \quad (3)$$

$$P[d_1 \leq \theta_1 \leq \theta_p \leq d_2] = C_2 |(b_{ij})| \quad (4)$$

where

$$a_{ij} = \int_{c_1}^{c_2} \exp(-y) y^{r+i+j-2} dy \quad (5)$$

$$b_{ij} = \int_{d_1}^{d_2} y^{r+i+j-2} (1-y)^n dy. \quad (6)$$

The above results follow immediately by applying a result of C. Andreief (see Lemma 2.1 in [3]) for the evaluation of certain integral.



### SECTION III

#### CONSTRUCTION OF THE TABLES

Using the expressions given by Eqs (3) and (5), the authors computed the values of  $c$  for different values of  $\alpha$ ,  $p$ , and  $n_1$  where

$$P\left[\frac{1}{c} \leq \ell_1 \leq \ell_p \leq c\right] = (1-\alpha) \quad (7)$$

and the joint density of  $\ell_1, \dots, \ell_p$  is given by Eq (1). Similarly, the authors computed the values of  $d$  for different values of  $\alpha$ ,  $p$ ,  $r$  and  $n$  using Eqs (4) and (6) where

$$P[1-d \leq \theta_1 \leq \theta_p \leq d] = (1-\alpha) \quad (8)$$

and the joint density of  $\theta_1 \leq \dots \leq \theta_p$  is given by Eq (2). Table I gives the values of  $c$  for  $p = 2(1)10$ ,  $\alpha = 0.010, 0.025, 0.050, 0.100$  and different values of  $n_1$ . Table II gives the values of  $d$  for  $p = 2(1)14$ ,  $r = 0(1)5, 7, 10, 15$ ,  $n = 5(1)10(2)20(5)50$ , and  $\alpha = 0.010, 0.025, 0.050, 0.100$ .

# SECTION IV

## APPLICATIONS

Let  $\underline{X}'(t) = (X_1(t), \dots, X_p(t))$  be distributed as a p-dimensional stationary Gaussian time series with zero means and spectral density matrix  $F(\omega)$  whereas  $\underline{Y}'(t) = (Y_1(t), \dots, Y_p(t))$  is distributed as a p-dimensional Gaussian stationary time series with spectral density matrix  $G(\omega)$ . Also, the two time series  $\{X(t)\}$  and  $\{Y(t)\}$  are independently distributed and they have records of length  $T$ . Then, a well known estimate of  $F(\omega)$  is given by  $\hat{F}(\omega)$  where  $\hat{F}(\omega) = (\hat{f}_{uv}(\omega))$ ,

$$\hat{f}_{uv}(\omega) = \frac{1}{(2a+1)} \sum_{j=-a}^a I_{uv}(\omega + \frac{2\pi j}{T_1})$$

$$I_{uv}(a_j) = Z_u(a_j) \bar{Z}'_v(a_j)$$

$$Z_u(a_j) = \frac{1}{\sqrt{2\pi T}} \sum_{t=1}^T X_u(t) \exp(-it a_j),$$

$a$  is a suitably chosen integer, and  $\bar{Z}'$  denotes the transpose of the complex conjugate of  $Z$ . Now, let  $\hat{G}(\omega)$  be an estimate of  $G(\omega)$  defined in the same way as  $F(\omega)$ . Also, let  $\lambda_1(\omega) \leq \dots \leq \lambda_p(\omega)$  be the roots of  $F(\omega)$  whereas  $\hat{\lambda}_1(\omega) \leq \dots \leq \hat{\lambda}_p(\omega)$  are the roots of  $\hat{F}(\omega)$ . In addition, let  $\mu_1(\omega) \leq \dots \leq \mu_p(\omega)$  be the roots of  $F(\omega)(F(\omega)+G(\omega))^{-1}$  and let  $\hat{\mu}_1(\omega) \leq \dots \leq \hat{\mu}_p(\omega)$  be the roots of  $\hat{F}(\omega)(\hat{F}(\omega)+\hat{G}(\omega))^{-1}$ . Next, let  $H_1: F(\omega) = \lambda(\omega)I_p$  and  $A_1: F(\omega) \neq \lambda(\omega)I_p$  where  $\lambda(\omega)$  is known. Then, we accept  $H_1$  against  $A_1$  if

$$c_1 \leq \hat{\lambda}_1(\omega) \leq \hat{\lambda}_p(\omega) \leq c_2 \tag{9}$$

and reject if otherwise where

$$P[c_1 \leq \hat{\lambda}_1(\omega) \leq \hat{\lambda}_p(\omega) \leq c_2 | H_1] = (1-\alpha). \quad (10)$$

The optimum choice of the constants  $c_1$  and  $c_2$  is not known. For practical purposes, we choose  $c_2 = 1/c_1$ . It is known (see [4]) that, when  $H_1$  is true,  $(2a+1)\hat{F}(\omega)$  is approximately distributed as a central complex Wishart matrix with  $(2a+1)$  degrees of freedom and  $E(\hat{F}(\omega)) = \lambda(\omega)I_p$ . So, approximate values of  $c_2$  can be obtained from Table I for certain values of  $\alpha$ ,  $a$ , and  $p$  when  $c_2 = 1/c_1$ . Next, let  $H_2: F(\omega) = G(\omega)$  and  $A_2: F(\omega) \neq G(\omega)$ . Then, we accept  $H_2$  against  $A_2$  if

$$d_1 \leq \hat{\mu}_1(\omega) \leq \hat{\mu}_p(\omega) \leq d_2$$

and reject it otherwise where

$$P[d_1 \leq \hat{\mu}_1(\omega) \leq \hat{\mu}_p(\omega) \leq d_2 | H_2] = (1-\alpha). \quad (11)$$

The optimum choice of  $d_1$  and  $d_2$  is not known and we choose  $d_2 = 1-d_1$  for practical purposes. We know that  $(2a+1)\hat{F}(\omega)$  and  $(2a+1)\hat{G}(\omega)$  are approximately distributed as complex Wishart matrices with  $(2a+1)$  degrees of freedom. So, when  $H_2$  is true, the critical values  $d_2$  can be obtained from Table II for different values of  $\alpha$ ,  $p$ , and when  $d_2 = 1-d_1$ .

Next, let us assume that the frequencies  $\omega_1, \dots, \omega_q$  are spaced sufficiently wide apart. Also, let  $H_3$  denote the hypothesis that  $F(\omega_\ell) = G(\omega_\ell)$  for  $\ell = 1, \dots, q$ . Also, let the alternative hypothesis be denoted by  $A_3: \bigcup_{\ell=1}^q [F(\omega_\ell) \neq G(\omega_\ell)]$ . Then, we accept  $H_3$  if

$$d_1 \leq \hat{\mu}_1(\omega_\ell) \leq \hat{\mu}_p(\omega_\ell) \leq d_2 \quad (12)$$

for  $\ell = 1, 2, \dots, q$  and reject otherwise where

$$\begin{aligned} P[d_1 \leq \hat{\mu}_1(\omega_\ell) \leq \hat{\mu}_p(\omega_\ell) \leq d_2; \ell = 1, \dots, q | H] \\ = (1-\alpha) \end{aligned} \quad (13)$$

But

$$P[d_1 \leq \hat{\mu}_1(\omega_\ell) \leq \hat{\mu}_p(\omega_\ell) \leq d_2; \ell = 1, \dots, q]$$

$$\approx \prod_{\ell=1}^q P[d_1 \leq \hat{\mu}_1(\omega_\ell) \leq \hat{\mu}_p(\omega_\ell) \leq d_2]$$

since the frequencies  $\omega_\ell$  are sufficiently far apart. Also,  $(2a+1) \hat{F}(\omega_\ell)$  and  $(2a+1) \hat{G}(\omega_\ell)$  are distributed approximately as complex Wishart matrices with  $(2a+1)$  degrees of freedom. So, if we choose  $d_2 = 1-d_1$ , approximate values of  $d_2$  can be obtained from Table II. We can similarly test the simultaneous hypothesis that  $F(\omega_\ell) = \lambda(\omega_\ell) I_p$  for  $\ell = 1, \dots, p$ .

# EXPLANATION OF TABLES

Table I gives the values of  $c$  for different values of  $\alpha$ ,  $n$ , and  $n$  where

$$P\left[\frac{1}{c} \leq \ell_1 \leq \ell \leq c\right] = (1-\alpha)$$

and the joint density of  $\ell_1 \leq \dots \leq \ell$  is given by Eq (1) with  $p$  replaced by  $P$ .

Table II gives the values of  $d$  for different values of ALPHA,  $P$ ,  $R$ , and  $N$  where

$$P[1-d \leq \theta_1 \leq \theta_p \leq d] = (1-\alpha)$$

and the joint density of  $\theta_1 \leq \dots \leq \theta_p$  is given by Eq (2) with  $n$ ,  $p$ ,  $r$  replaced by  $N$ ,  $P$ ,  $R$ , respectively.

TABLE I

PERCENTAGE POINTS OF THE JOINT DISTRIBUTION OF THE EXTREME  
ROOTS OF THE COMPLEX WISHART MATRIX

P = 2					P = 3				
$n_1$	$\alpha \cdot 100$	.050	.025	.010	$n_1$	$\alpha \cdot 100$	.050	.025	.010
3	8.0127	9.2933	10.6813	13.1736	4	11.8295	13.3172	14.9371	18.0678
4	9.2991	10.4780	11.5837	12.9740	5	13.1893	14.5196	15.7557	17.2975
5	10.8304	12.0804	13.2436	14.6913	6	14.8171	16.2045	17.4853	19.0679
6	12.3185	13.6366	14.8585	16.3736	7	16.4028	17.8474	19.1778	20.8176
7	13.7658	15.1466	16.4226	18.0001	8	17.9464	19.4447	20.8216	22.5152
8	15.1809	16.6200	17.9465	19.5825	9	19.4559	21.0046	22.4252	24.1698
9	16.5698	18.0638	19.4378	21.1289	10	20.9368	22.5334	23.9956	25.7884
10	17.9370	19.4830	20.9020	22.6452	11	22.3936	24.0357	25.5376	27.3765
11	19.2858	20.8812	22.3430	24.1360	12	23.8294	25.5153	27.0550	28.9381
12	20.6186	22.2612	23.7641	25.6046	13	25.2471	26.9748	28.5511	30.4766
13	21.9375	23.6254	25.1676	27.0540	14	26.6487	28.4168	30.0281	31.9946
14	23.2440	24.9757	26.5557	28.4862	15	28.0358	29.8428	31.4882	33.4943
15	24.5396	26.3134	27.9301	29.9031	16	29.4100	31.2548	32.9330	34.9775
16	25.8253	27.6399	29.2920	31.3062	17	30.7725	32.6539	34.3639	36.4458
17	27.1021	28.9561	30.6425	32.6968	18	32.1243	34.0412	35.7823	37.9003
18	28.3707	30.2630	31.9829	34.0760	19	33.4663	35.4178	37.1891	39.3424
19	29.6318	31.5615	33.3138	35.4448	20	34.7992	36.7844	38.5852	40.7729
20	30.8860	32.8521	34.6360	36.8038	22	37.4407	39.4910	41.3486	43.6027
22	33.3758	35.4120	37.2570	39.4960	24	40.0533	42.1658	44.0777	46.3953
24	35.8436	37.9468	39.8501	42.1571	26	42.6405	44.8128	46.7768	49.1555
26	38.2920	40.4594	42.4188	44.7911	28	45.2054	47.4351	49.4494	51.8870
28	40.7232	42.9525	44.9658	47.4011	30	47.7501	50.0354	52.0983	54.5926
30	43.1392	45.4282	47.4935	49.9895	35	54.0367	56.4533	58.6310	61.2598
35	49.1216	51.5518	53.7401	56.3799	40	60.2335	62.7724	65.0572	67.8114
40	55.0354	57.5970	59.9000	62.6737	45	66.3571	69.0110	71.3963	74.2685
45	60.8933	63.5784	65.9892	68.8887	50	72.4195	75.1821	77.6627	80.6466
50	66.7045	69.5064	72.0190	75.0378					

TABLE I (Continued)

P = 4					P = 5						
$n_1$	$\alpha$	.100	.050	.025	.010	$n_1$	$\alpha$	.100	.050	.025	.010
5	15.6727	17.3249	19.1331	22.8622		6	19.5349	21.3261	23.2949	27.6019	
6	17.0693	18.5241	19.8678	21.5358		7	20.9515	22.5134	23.9502	25.7276	
7	18.7577	20.2601	21.6413	23.3374		8	22.6818	24.2847	25.7516	27.5493	
8	20.4074	21.9600	23.3834	25.1308		9	24.3773	26.0250	27.5308	29.3736	
9	22.0164	23.6163	25.0809	26.8761		10	26.0342	27.7245	29.2674	31.1535	
10	23.5913	25.2362	26.7399	28.5805		11	27.6579	29.3890	30.9675	32.8949	
11	25.1373	26.8251	28.3661	30.2502		12	29.2533	31.0235	32.6359	34.6032	
12	26.6584	28.3873	29.9640	31.8898		13	30.8236	32.6314	34.2767	36.2823	
13	28.1577	29.9259	31.5372	33.5032		14	32.3719	34.2160	35.8930	37.9355	
14	29.6377	31.4440	33.0885	35.0931		15	33.9005	35.7798	37.4874	39.5658	
15	31.1004	32.9436	34.6201	36.6623		16	35.4115	37.3248	39.0621	41.1752	
16	32.5477	34.4265	36.1341	38.2127		17	36.9065	38.8526	40.6189	42.7659	
17	33.9810	35.8944	37.6322	39.7461		18	38.3867	40.3651	42.1595	44.3393	
18	35.4015	37.3485	39.1156	41.2639		19	39.8537	41.8634	43.6851	45.8970	
19	36.8102	38.7899	40.5857	42.7674		20	41.3084	43.3486	45.1969	47.4401	
20	38.2082	40.2198	42.0435	44.2578		22	44.1842	46.2834	48.1833	50.4870	
22	40.9750	43.0482	44.9257	47.2032		24	47.0206	49.1762	51.1255	53.4871	
24	43.7072	45.8393	47.7683	50.1062		26	49.8224	52.0321	54.0289	56.4463	
26	46.4091	48.5979	50.5754	52.9723		28	52.5935	54.8555	56.8981	59.3692	
28	49.0841	51.3274	53.3537	55.8056		30	55.3373	57.6498	59.7366	62.2797	
30	51.7353	54.0312	56.1037	58.6096		35	62.0939	64.5258	66.7175	69.3636	
35	58.2731	60.6935	62.8751	65.5091		40	68.7279	71.2712	73.5607	76.3217	
40	64.7036	67.2401	69.5235	72.2769		45	75.2617	77.9100	80.2915	83.1608	
45	71.0465	73.6922	76.0714	78.9373		50	81.7121	84.4596	86.9283	89.9002	
50	77.3161	80.0653	82.5351	85.5076							

TABLE I (Continued)

P = 6					P = 7						
$n_1$	$\alpha$	.100	.050	.025	.010	$n_1$	$\alpha$	.100	.050	.025	.010
7	23.4114	25.3239	27.4342	32.3088		8	27.2990	29.3201	31.5572	36.9962	
8	24.8389	26.4956	28.0149	29.8898		9	28.7321	30.4743	32.0683	34.0314	
9	26.6001	28.2926	29.8372	31.7253		10	30.5171	32.2910	33.9064	35.8768	
10	28.3302	30.0635	31.6434	33.5725		11	32.2743	34.0856	35.7335	37.7417	
11	30.0238	31.7960	33.4101	35.3788		12	33.9972	35.8445	37.5239	39.5688	
12	31.6857	33.4954	35.1421	37.1490		13	35.6898	37.5719	39.2815	41.3620	
13	33.3199	35.1656	36.8438	38.8875		14	37.3555	39.2712	41.0104	43.1251	
14	34.9295	36.8102	38.5188	40.5980		15	38.9975	40.9457	42.7132	44.8613	
15	36.5174	38.4316	40.1697	42.2835		16	40.6178	42.5977	44.3928	46.5732	
16	38.0854	40.0324	41.7991	43.9463		17	42.2188	44.2293	46.0513	48.2632	
17	39.6358	41.6145	43.4089	45.5887		18	43.8020	45.8424	47.6905	49.9331	
18	41.1698	43.1795	45.0039	47.2124		19	45.3690	47.4385	49.3121	51.5846	
19	42.6890	44.7288	46.5765	48.8190		20	46.9210	49.0188	50.9173	53.2191	
20	44.1945	46.2636	48.1372	50.4096		22	49.9844	52.1372	54.0839	56.4421	
22	47.1683	49.2942	51.2175	53.5483		24	52.9999	55.2053	57.1981	59.6107	
24	50.0982	52.2784	54.2494	56.6361		26	55.9733	58.2294	60.2667	62.7313	
26	52.9896	55.2221	57.2359	59.6795		28	58.9095	61.2146	63.2943	65.8096	
28	55.8470	58.1299	60.1909	62.6834		30	61.8127	64.1645	66.2863	68.8504	
30	58.6739	61.0055	63.1092	65.6520		35	68.9452	71.4096	73.6292	76.3086	
35	65.6268	68.0738	70.2788	72.9406		40	75.929	78.497	80.810	83.596	
40	72.4434	74.9980	77.2977	80.0706		45	82.79	85.45	87.85	90.73	
45	79.1487	81.8049	84.1936	87.0710		50	89.55	92.31	94.79	97.77	
50	85.7611	88.5133	90.9852	93.9632							



TABLE I (Continued)

P = 8					P = 9						
$n_1$	$\alpha$	.100	.050	.025	.010	$n_1$	$\alpha$	.100	.050	.025	.010
9	31.1954	33.3151	35.6681	41.6722		10	35.0993	37.3096	39.7692	46.3429	
10	32.6309	34.4512	36.1137	38.1579		11	36.5348	38.4273	40.1532	42.2724	
11	34.4347	36.2834	37.9639	40.0103		12	38.3540	40.2720	42.0131	44.1303	
12	36.2139	38.0972	39.8079	41.8895		13	40.1512	42.1016	43.8710	46.0209	
13	37.9606	39.8775	41.6176	43.7334		14	41.9178	43.8998	45.6966	47.8789	
14	39.6784	41.6279	43.3364	45.5455		15	43.6569	45.6694	47.4932	49.7069	
15	41.3705	43.3515	45.1476	47.3290		16	45.3713	47.4136	49.2631	51.5070	
16	43.0395	45.0510	46.8739	49.0866		17	47.0633	49.1345	51.0094	53.2828	
17	44.6873	46.7287	48.5775	50.8208		18	48.734	50.833	52.733	55.036	
18	46.3161	48.3865	50.2608	52.5336		19	50.387	52.514	54.438	56.769	
19	47.9274	50.0259	51.9249	54.2268		20	52.023	54.176	56.123	58.481	
20	49.5226	51.6488	53.5719	55.9022		22	55.248	57.451	59.447	61.857	
22	52.669	54.848	56.818	59.203		24	58.416	60.672	62.707	65.171	
24	55.764	57.394	60.009	62.447		26	61.53	63.83	65.90	68.43	
26	58.813	61.093	63.150	65.640		28	64.61	66.97	69.10	71.62	
28	61.823	64.118	66.248	68.784		30	67.6	70.0	72.1	74.8	
30	64.79	67.17	69.30	71.89		35	75.1	77.5	80.0	82.8	
35	72.09	74.57	76.80	79.66		40	82.	85.	86.	89.	
40	79.2	81.8	84.1	86.9		45	88.	91.	93.	94.	
45	86.2	89.0	91.3	94.5							

TABLE I (Continued)

 $P = 10$ 

$n_1$	$\alpha$	.100	.050	.025	.010
11	39.0093	41.3036	43.8625	51.0122	
12	40.4433	42.4032	44.1882	46.3776	
13	42.275	44.258	46.055	48.239	
14	44.087	46.101	47.925	50.139	
15	45.871	47.914	49.764	52.008	
16	47.628	49.700	51.575	53.852	
17	49.361	51.461	53.362	55.661	
18	51.07	53.20	55.12	57.45	
19	52.76	54.92	56.87	59.21	
20	54.43	56.62	58.59	60.98	
22	57.73	59.97	62.00	64.40	
24	60.9	63.2	65.2	67.3	
26	64.1	66.4	68.5	71.0	
28	67.	69.	71.	74.	
30	70.	73.	74.	75.	

TABLE II

PERCENTAGE POINTS OF THE JOINT DISTRIBUTION OF THE EXTREME  
ROOTS OF THE COMPLEX MULTIVARIATE BETA MATRIX

		P = 2					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9925	.9601	.9175	.8741	.8387	.8198	.8252	.8575	.8924
6		.9934	.9647	.9264	.8858	.8474	.8174	.7997	.8282	.8687
7		.9942	.9684	.9336	.8962	.8591	.8252	.7862	.8008	.8457
8		.9947	.9713	.9395	.9049	.8701	.8365	.7845	.7771	.8233
9		.9952	.9738	.9444	.9122	.8795	.8476	.7908	.7599	.8017
10		.9956	.9759	.9486	.9185	.8878	.8575	.8008	.7510	.7809
12		.9962	.9792	.9553	.9267	.9012	.8739	.8212	.7545	.7436
14		.9967	.9817	.9605	.9367	.9118	.8869	.8383	.7718	.7185
16		.9971	.9836	.9646	.9430	.9203	.8974	.8524	.7895	.7124
18		.9973	.9852	.9679	.9482	.9273	.9062	.8642	.8050	.7213
20		.9976	.9865	.9707	.9525	.9332	.9135	.8743	.8183	.7361
25		.9981	.9890	.9759	.9607	.9444	.9277	.8940	.8448	.7703
30		.9984	.9906	.9795	.9665	.9524	.9379	.9083	.8645	.7968
35		.9986	.9919	.9821	.9707	.9584	.9456	.9192	.8798	.8178
40		.9987	.9928	.9842	.9741	.9630	.9516	.9278	.8919	.8348
45		.9989	.9936	.9858	.9767	.9668	.9563	.9347	.9018	.8490
50		.9990	.9942	.9872	.9789	.9698	.9602	.9404	.9101	.8608

		P = 2					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9963	.9730	.9379	.8992	.8649	.8456	.8514	.8798	.9095
6		.9968	.9762	.9447	.9091	.8733	.8435	.8254	.8523	.8875
7		.9971	.9787	.9501	.9174	.8837	.8514	.8113	.8258	.8658
8		.9974	.9807	.9546	.9244	.8929	.8617	.8097	.8022	.8446
9		.9977	.9824	.9583	.9303	.9008	.8713	.8164	.7841	.8238
10		.9979	.9838	.9615	.9354	.9077	.8798	.8258	.7745	.8038
12		.9981	.9860	.9666	.9435	.9189	.8937	.8442	.7785	.7667
14		.9984	.9877	.9704	.9498	.9276	.9048	.8593	.7953	.7401
16		.9985	.9890	.9735	.9549	.9347	.9137	.8717	.8116	.7335
18		.9987	.9901	.9760	.9590	.9405	.9212	.8822	.8256	.7431
20		.9988	.9909	.9780	.9624	.9453	.9274	.8910	.8377	.7575
25		.9991	.9926	.9820	.9690	.9546	.9384	.9081	.8616	.7895
30		.9992	.9938	.9847	.9735	.9612	.9480	.9206	.8793	.8141
35		.9993	.9946	.9867	.9769	.9660	.9544	.9301	.8930	.8334
40		.9994	.9952	.9882	.9795	.9698	.9594	.9376	.9039	.8491
45		.9995	.9957	.9894	.9816	.9729	.9635	.9436	.9127	.8621
50		.9995	.9961	.9904	.9833	.9753	.9668	.9486	.9201	.8730

TABLE II (Continued)

		P = 2					ALPHA = .025			
R	0	1	2	3	4	5	7	10	15	
N										
5	.9982	.9915	.9525	.9184	.8859	.8667	.8724	.8973	.9229	
6	.9984	.9837	.9578	.9265	.8938	.8648	.8466	.8716	.9025	
7	.9986	.9854	.9619	.9334	.9027	.8724	.8322	.8463	.8820	
8	.9987	.9850	.9654	.9391	.9106	.8816	.8308	.8230	.8618	
9	.9989	.9879	.9682	.9438	.9173	.8900	.8374	.8045	.8419	
10	.9989	.9889	.9706	.9479	.9231	.8973	.8463	.7945	.8226	
12	.9991	.9914	.9745	.9546	.9324	.9093	.8629	.7987	.7862	
14	.9992	.9918	.9775	.9596	.9398	.9189	.8763	.8148	.7588	
16	.9993	.9925	.9798	.9637	.9456	.9265	.8873	.8298	.7518	
18	.9994	.9932	.9817	.9671	.9505	.9329	.8965	.8420	.7617	
20	.9994	.9938	.9833	.9698	.9546	.9383	.9043	.8536	.7756	
25	.9995	.9950	.9863	.9751	.9622	.9485	.9195	.8753	.8055	
30	.9996	.9957	.9884	.9787	.9677	.9558	.9305	.8914	.8284	
35	.9997	.9963	.9899	.9815	.9718	.9613	.9388	.9038	.8464	
40	.9997	.9967	.9911	.9836	.9750	.9656	.9454	.9136	.8610	
45	.9997	.9970	.9920	.9853	.9775	.9690	.9507	.9216	.8730	
50	.9998	.9973	.9927	.9867	.9796	.9718	.9550	.9283	.8831	

		P = 2				ALPHA = .010				
R	0	1	2	3	4	5	7	10	15	
N										
5	.9993	.9886	.9662	.9374	.9079	.8891	.8946	.9156	.9368	
6	.9994	.9899	.9700	.9438	.9149	.8876	.8698	.8920	.9182	
7	.9994	.9910	.9730	.9491	.9223	.8946	.8552	.8685	.8994	
8	.9995	.9918	.975	.9535	.9286	.9026	.8540	.8460	.8805	
9	.9995	.9926	.9774	.9572	.9340	.9095	.8604	.8274	.8617	
10	.9996	.9932	.9791	.9603	.9387	.9156	.8685	.8169	.8434	
12	.9996	.9941	.9820	.9654	.9462	.9256	.8828	.8214	.8081	
14	.9997	.9948	.9841	.9693	.9521	.9335	.8944	.8363	.7800	
16	.9997	.9954	.9857	.9724	.9568	.9398	.9039	.8497	.7728	
18	.9998	.9958	.9871	.9749	.9607	.9450	.9118	.8612	.7828	
20	.9998	.9962	.9882	.9770	.9639	.9494	.9185	.8710	.7959	
25	.9998	.9969	.9903	.9810	.9701	.9579	.9315	.8903	.8234	
30	.9998	.9974	.9918	.9838	.9744	.9638	.9409	.9045	.8444	
35	.9998	.9977	.9928	.9859	.9776	.9684	.9481	.9155	.8608	
40	.9999	.9980	.9936	.9875	.9802	.9719	.9536	.9241	.8742	
45	.9999	.9982	.9943	.9888	.9822	.9747	.9582	.9312	.8851	
50	.9999	.9984	.9948	.9898	.9838	.9770	.9617	.9371	.8944	

TABLE II (Continued)

		P = 3					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9956	.9749	.9455	.9132	.8850	.8687	.8706	.8934	.9186
6		.9961	.9776	.9508	.9207	.8905	.8654	.8484	.8690	.8990
7		.9965	.9796	.9552	.9273	.8984	.8706	.8360	.8455	.8794
8		.9968	.9814	.9589	.9330	.9058	.8786	.8335	.8244	.8600
9		.9971	.9829	.9620	.9379	.9123	.8864	.8380	.8084	.8410
10		.9973	.9842	.9647	.9420	.9180	.8934	.8455	.7996	.8225
12		.9977	.9862	.9690	.9489	.9274	.9052	.8609	.8014	.7883
14		.9980	.9878	.9724	.9544	.9348	.9146	.8737	.8152	.7641
16		.9981	.9890	.9752	.9588	.9409	.9223	.8845	.8294	.7572
18		.9983	.9900	.9774	.9624	.9459	.9287	.8935	.8417	.7647
20		.9985	.9909	.9793	.9654	.9502	.9341	.9012	.8523	.7773
25		.9987	.9925	.9828	.9712	.9583	.9447	.9164	.8735	.8060
30		.9989	.9936	.9853	.9753	.9641	.9523	.9275	.8894	.8283
35		.9991	.9944	.9872	.9784	.9686	.9581	.9359	.9017	.8459
40		.9992	.9951	.9887	.9808	.9720	.9626	.9427	.9115	.8602
45		.9993	.9956	.9898	.9828	.9748	.9663	.9481	.9196	.8721
50		.9994	.9960	.9908	.9843	.9771	.9693	.9526	.9263	.8821

		P = 3					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9979	.9832	.9591	.9307	.9041	.8878	.8903	.9102	.9316
6		.9981	.9849	.9631	.9370	.9095	.8851	.8683	.8876	.9135
7		.9983	.9863	.9665	.9424	.9163	.8903	.8556	.8652	.8952
8		.9984	.9875	.9692	.9469	.9226	.8975	.8534	.8445	.8769
9		.9985	.9885	.9716	.9508	.9279	.9042	.8581	.8280	.8589
10		.9987	.9893	.9736	.9541	.9326	.9102	.8652	.8188	.8411
12		.9988	.9907	.9768	.9596	.9404	.9202	.8790	.8211	.8076
14		.9990	.9917	.9794	.9639	.9466	.9281	.8903	.8345	.7823
16		.9991	.9927	.9815	.9674	.9515	.9347	.8996	.8474	.7753
18		.9992	.9933	.9831	.9702	.9556	.9401	.9076	.8585	.7832
20		.9993	.9939	.9845	.9725	.9591	.9447	.9143	.8680	.7955
25		.9994	.9950	.9871	.9772	.9659	.9536	.9275	.8872	.8222
30		.9995	.9957	.9890	.9805	.9707	.9601	.9372	.9014	.8427
35		.9996	.9962	.9904	.9829	.9743	.9649	.9446	.9125	.8590
40		.9996	.9967	.9915	.9848	.9771	.9687	.9504	.9212	.8722
45		.9997	.9970	.9924	.9864	.9794	.9717	.9551	.9265	.8831
50		.9997	.9973	.9931	.9876	.9813	.9743	.9590	.9344	.8923

TABLE II (Continued)

		P = 3					ALPHA = .025				
	R	0	1	2	3	4	5	7	10	15	
N											
5		.9989	.9884	.9688	.9441	.9192	.9034	.9060	.9234	.9417	
6		.9991	.9897	.9719	.9492	.9242	.9010	.8846	.9023	.9250	
7		.9992	.9906	.9744	.9535	.9301	.9060	.8718	.8812	.9070	
8		.9992	.9915	.9765	.9572	.9354	.9124	.8698	.8611	.8907	
9		.9993	.9922	.9784	.9604	.9400	.9182	.8746	.8445	.8735	
10		.9994	.9927	.9799	.9630	.9439	.9234	.8812	.8351	.8565	
12		.9994	.9937	.9824	.9675	.9503	.9320	.8935	.8376	.8238	
14		.9995	.9944	.9843	.9710	.9555	.9388	.9035	.8504	.7981	
16		.9995	.9950	.9859	.9738	.9597	.9444	.9118	.8622	.7908	
18		.9996	.9955	.9872	.9761	.9632	.9490	.9189	.8723	.7990	
20		.9996	.9958	.9883	.9780	.9660	.9530	.9248	.8810	.8107	
25		.9997	.9966	.9903	.9817	.9716	.9605	.9364	.8983	.8357	
30		.9997	.9970	.9917	.9843	.9757	.9660	.9449	.9112	.8548	
35		.9998	.9975	.9928	.9863	.9777	.9702	.9514	.9212	.8699	
40		.9998	.9977	.9936	.9878	.9810	.9734	.9566	.9292	.8822	
45		.9998	.9980	.9942	.9890	.9829	.9760	.9607	.9356	.8923	
50		.9998	.9981	.9948	.9901	.9845	.9781	.9641	.9411	.9008	

		P = 3					ALPHA = .010				
		0	1	2	3	4	5	7	10	15	
N	R										
5		.9996	.9929	.9778	.9673	.9350	.9198	.9225	.9371	.9523	
6		.9996	.9936	.9800	.9612	.9394	.9179	.9022	.9180	.9371	
7		.9997	.9942	.9819	.9646	.9443	.9225	.8895	.8385	.9215	
8		.9997	.9947	.9834	.9673	.9485	.9268	.8879	.8793	.9054	
9		.9997	.9952	.9847	.9698	.9522	.9329	.8926	.8629	.8894	
10		.9997	.9958	.9857	.9719	.9553	.9371	.8985	.8532	.8733	
12		.9998	.9961	.9875	.9752	.9605	.9442	.9091	.8561	.8420	
14		.9998	.9966	.9889	.9779	.9646	.9498	.9177	.8678	.8161	
16		.9998	.9969	.9900	.9800	.9679	.9544	.9248	.8783	.8086	
18		.9998	.9972	.9909	.9815	.9707	.9582	.9309	.8874	.8169	
20		.9999	.9974	.9917	.9833	.9730	.9614	.9360	.8951	.8279	
25		.9999	.9979	.9931	.9861	.9775	.9677	.9459	.9101	.8508	
30		.9999	.9982	.9941	.9881	.9807	.9722	.9531	.9211	.8682	
35		.9999	.9984	.9948	.9896	.9831	.9756	.9587	.9301	.8820	
40		.9999	.9986	.9954	.9908	.9849	.9782	.9631	.9378	.8932	
45		.9999	.9987	.9959	.9917	.9864	.9804	.9666	.9435	.9024	
50		.9999	.9989	.9963	.9925	.9877	.9822	.9695	.9482	.9102	

TABLE II (Continued)

		P = 4					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9971	.9826	.9608	.9360	.9132	.8992	.8993	.9162	.9352
6		.9973	.9842	.9644	.9411	.9168	.8958	.8802	.8955	.9185
7		.9976	.9856	.9673	.9456	.9223	.8993	.8690	.8752	.9017
8		.9978	.9867	.9698	.9496	.9277	.9052	.8662	.8565	.8848
9		.9980	.9877	.9720	.9530	.9324	.9110	.8694	.8420	.8680
10		.9981	.9886	.9738	.9550	.9366	.9162	.8752	.8336	.8515
12		.9984	.9900	.9768	.9610	.9435	.9250	.8872	.8342	.8203
14		.9986	.9910	.9793	.9649	.9490	.9322	.8973	.8455	.7973
16		.9987	.9919	.9812	.9681	.9535	.9380	.9057	.8571	.7902
18		.9988	.9926	.9828	.9708	.9574	.9430	.9129	.8672	.7965
20		.9989	.9932	.9842	.9731	.9606	.9472	.9190	.8759	.8073
25		.9991	.9944	.9868	.9774	.9668	.9554	.9311	.8933	.8319
30		.9992	.9951	.9887	.9806	.9714	.9614	.9401	.9065	.8509
35		.9993	.9958	.9901	.9830	.9748	.9660	.9469	.9167	.8661
40		.9994	.9961	.9912	.9848	.9776	.9696	.9524	.9250	.8784
45		.9995	.9966	.9921	.9853	.9797	.9725	.9569	.9317	.8886
50		.9995	.9969	.9928	.9876	.9815	.9749	.9605	.9373	.8973

		P = 4					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9985	.9883	.9706	.9491	.9277	.9141	.8948	.9295	.9456
6		.9987	.9894	.9733	.9532	.9313	.9112	.8861	.9104	.9303
7		.9988	.9903	.9755	.9569	.9362	.9148	.8848	.8913	.9146
8		.9989	.9911	.9774	.9601	.9406	.9201	.8824	.8731	.8988
9		.9990	.9917	.9790	.9627	.9445	.9250	.8859	.8584	.8829
10		.9991	.9924	.9804	.9652	.9479	.9295	.8913	.8497	.8672
12		.9992	.9933	.9827	.9691	.9536	.9370	.9020	.8509	.8368
14		.9993	.9940	.9845	.9722	.9581	.9430	.9108	.8617	.8132
16		.9994	.9946	.9859	.9748	.9619	.9479	.9182	.8722	.8060
18		.9994	.9951	.9871	.9770	.9651	.9521	.9244	.8813	.8127
20		.9995	.9954	.9882	.9787	.9677	.9556	.9297	.8891	.8231
25		.9996	.9962	.9901	.9822	.9729	.9626	.9403	.9048	.8459
30		.9996	.9968	.9916	.9847	.9766	.9676	.9481	.9167	.8635
35		.9997	.9972	.9926	.9865	.9794	.9715	.9540	.9258	.8774
40		.9997	.9975	.9934	.9880	.9817	.9745	.9588	.9332	.8888
45		.9997	.9977	.9941	.9892	.9834	.9770	.9627	.9392	.8982
50		.9997	.9979	.9946	.9901	.9849	.9790	.9659	.9442	.9061

TABLE 11 (Continued)

		P = 4					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9993	.9920	.9776	.9589	.9392	.9261	.9272	.9398	.9536
6		.9994	.9926	.9796	.9623	.9426	.9236	.9091	.9223	.9396
7		.9994	.9934	.9814	.9653	.9468	.9272	.8979	.9043	.9250
8		.9995	.9939	.9828	.9679	.9495	.9318	.8957	.8869	.9101
9		.9995	.9944	.9840	.9701	.9533	.9361	.8993	.8721	.8951
10		.9995	.9947	.9851	.9720	.9566	.9398	.9043	.8833	.8800
12		.9996	.9954	.9868	.9751	.9614	.9463	.9138	.8848	.8507
14		.9997	.9959	.9882	.9777	.9652	.9514	.9216	.8751	.8268
16		.9997	.9963	.9893	.9798	.9684	.9557	.9281	.8847	.8195
18		.9997	.9966	.9903	.9815	.9710	.9593	.9336	.8929	.8264
20		.9997	.9969	.9910	.9829	.9732	.9623	.9383	.9000	.8363
25		.9998	.9974	.9925	.9857	.9774	.9682	.9477	.9143	.8576
30		.9998	.9978	.9936	.9877	.9806	.9725	.9545	.9249	.8739
35		.9998	.9981	.9944	.9892	.9829	.9758	.9597	.9332	.8869
40		.9998	.9983	.9950	.9904	.9848	.9784	.9640	.9398	.8974
45		.9998	.9984	.9955	.9914	.9862	.9804	.9673	.9453	.9062
50		.9999	.9986	.9959	.9921	.9875	.9821	.9701	.9499	.9135

		P = 4					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9997	.9951	.9841	.9686	.9511	.9388	.9400	.9507	.9620
6		.9998	.9955	.9856	.9713	.9542	.9368	.9231	.9348	.9494
7		.9998	.9959	.9868	.9736	.9576	.9400	.9122	.9182	.9361
8		.9998	.9963	.9878	.9755	.9606	.9440	.9103	.9018	.9223
9		.9998	.9965	.9887	.9772	.9632	.9475	.9138	.8873	.9083
10		.9998	.9968	.9894	.9787	.9655	.9507	.9182	.8785	.8942
12		.9998	.9972	.9907	.9811	.9693	.9559	.9264	.8803	.8661
14		.9998	.9975	.9916	.9830	.9724	.9602	.9331	.8897	.8423
16		.9999	.9977	.9924	.9846	.9748	.9637	.9367	.8983	.8350
18		.9999	.9979	.9931	.9859	.9769	.9666	.9435	.9056	.8419
20		.9999	.9981	.9936	.9870	.9787	.9691	.9475	.9119	.8512
25		.9999	.9984	.9947	.9891	.9821	.9740	.9555	.9245	.8707
30		.9999	.9986	.9954	.9906	.9846	.9775	.9613	.9340	.8856
35		.9999	.9988	.9960	.9918	.9864	.9802	.9658	.9413	.8974
40		.9999	.9989	.9964	.9927	.9879	.9823	.9693	.9471	.9070
45	1.0000	.9991	.9968	.9934	.9891	.9840	.9784	.9672	.9520	.9149
50	1.0000	.9992	.9971	.9940	.9900	.9854	.9746	.9559	.9217	



TABLE II (Continued)

		P = .5					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9979	.9871	.9704	.9506	.9319	.9199	.9190	.9319	.9467
6		.9961	.9863	.9728	.9542	.9343	.9166	.9025	.9142	.9324
7		.9963	.9892	.9749	.9575	.9384	.9190	.8924	.8965	.9177
8		.9984	.9900	.9767	.9604	.9424	.9234	.8896	.8800	.9028
9		.9985	.9906	.9782	.9629	.9459	.9279	.8919	.8668	.8879
10		.9986	.9912	.9796	.9652	.9491	.9319	.8965	.8589	.8730
12		.9987	.9923	.9818	.9689	.9543	.9388	.9060	.8587	.8446
14		.9989	.9930	.9836	.9719	.9586	.9443	.9142	.8681	.8230
16		.9990	.9937	.9851	.9743	.9621	.9489	.9210	.8717	.8199
18		.9991	.9942	.9864	.9764	.9651	.9529	.9268	.8861	.8211
20		.9992	.9947	.9874	.9782	.9677	.9563	.9318	.8933	.8305
25		.9993	.9956	.9894	.9817	.9727	.9629	.9417	.9081	.8518
30		.9994	.9962	.9909	.9842	.9763	.9678	.9491	.9192	.8684
35		.9995	.9967	.9920	.9861	.9792	.9715	.9549	.9279	.8816
40		.9995	.9970	.9928	.9875	.9814	.9745	.9594	.9349	.8924
45		.9996	.9973	.9936	.9887	.9831	.9769	.9632	.9407	.9013
50		.9996	.9975	.9941	.9897	.9846	.9789	.9663	.9455	.9089

		P = .5					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9990	.9913	.9778	.9607	.9433	.9319	.9316	.9427	.9553
6		.9991	.9921	.9797	.9637	.9458	.9290	.9156	.9265	.9422
7		.9991	.9928	.9812	.9664	.9494	.9316	.9056	.9099	.9286
8		.9992	.9933	.9826	.9687	.9527	.9355	.9031	.8939	.9146
9		.9993	.9938	.9837	.9707	.9556	.9393	.9056	.8807	.9006
10		.9993	.9942	.9847	.9724	.9582	.9427	.9099	.8727	.8865
12		.9994	.9948	.9864	.9754	.9626	.9485	.9184	.8730	.8590
14		.9995	.9953	.9877	.9778	.9661	.9532	.9255	.8820	.8370
16		.9995	.9958	.9888	.9797	.9690	.9571	.9314	.8907	.8298
18		.9996	.9961	.9898	.9814	.9715	.9605	.9365	.8982	.8355
20		.9996	.9964	.9905	.9827	.9736	.9633	.9409	.9048	.8445
25		.9997	.9970	.9921	.9855	.9777	.9689	.9495	.9180	.8642
30		.9997	.9974	.9932	.9874	.9807	.9730	.9560	.9280	.8794
35		.9997	.9977	.9940	.9889	.9829	.9761	.9609	.9357	.8916
40		.9998	.9980	.9947	.9902	.9847	.9786	.9649	.9420	.9015
45		.9998	.9982	.9952	.9911	.9862	.9806	.9681	.9472	.9098
50		.9998	.9983	.9956	.9919	.9874	.9823	.9709	.9515	.9167

TABLE II (Continued)

		P = .5					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9995	.9940	.9831	.9684	.9524	.9414	.9416	.9512	.9619
6		.9995	.9946	.9845	.9708	.9548	.9390	.9262	.9362	.9499
7		.9996	.9950	.9857	.9729	.9579	.9416	.9164	.9208	.9373
8		.9996	.9954	.9867	.9748	.9607	.9450	.9142	.9055	.9242
9		.9997	.9957	.9876	.9764	.9631	.9483	.9168	.8924	.9110
10		.9997	.9960	.9884	.9778	.9652	.9512	.9208	.8843	.8976
12		.9997	.9964	.9897	.9802	.9688	.9561	.9283	.8850	.8711
14		.9997	.9968	.9907	.9821	.9718	.9602	.9345	.8935	.8490
16		.9998	.9971	.9915	.9837	.9742	.9635	.9398	.9014	.8418
20		.9998	.9973	.9922	.9850	.9763	.9663	.9442	.9082	.8476
25		.9998	.9976	.9928	.9862	.9780	.9680	.9481	.9142	.8562
30		.9998	.9980	.9940	.9884	.9814	.9735	.9557	.9261	.8745
35		.9999	.9983	.9948	.9900	.9839	.9770	.9614	.9351	.8887
40		.9999	.9984	.9955	.9911	.9858	.9797	.9658	.9422	.8999
45		.9999	.9986	.9959	.9921	.9873	.9818	.9693	.9478	.9091
50		.9999	.9987	.9964	.9929	.9886	.9836	.9721	.9525	.9168
		.9999	.9989	.9967	.9935	.9895	.9850	.9745	.9564	.9232

		P = .5					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9964	.9880	.9758	.9618	.9515	.9519	.9600	.9688
6		.9998	.9967	.9890	.9777	.9640	.9496	.9376	.9485	.9580
7		.9998	.9970	.9899	.9794	.9665	.9519	.9281	.9324	.9466
8		.9998	.9972	.9906	.9808	.9687	.9549	.9263	.9181	.9346
9		.9998	.9974	.9912	.9821	.9706	.9576	.9289	.9053	.9222
10		.9998	.9975	.9918	.9831	.9723	.9600	.9324	.8973	.9097
12		.9999	.9978	.9927	.9849	.9752	.9641	.9388	.8983	.8844
14		.9999	.9980	.9934	.9864	.9776	.9674	.9442	.9060	.8626
16		.9999	.9982	.9940	.9876	.9795	.9701	.9487	.9130	.8554
18		.9999	.9984	.9945	.9885	.9811	.9724	.9525	.919	.8614
20		.9999	.9985	.9949	.9895	.9825	.9744	.9558	.924	.8693
25		.9999	.9987	.9957	.9911	.9852	.9784	.9623	.9350	.8861
30		.9999	.9989	.9963	.9924	.9872	.9812	.9671	.9429	.8990
35	1.0000	.9990	.9968	.9933	.9887	.9834	.9709	.9492	.9093	
40	1.0000	.9992	.9971	.9940	.9899	.9852	.9738	.9541	.9177	
45	1.0000	.9992	.9974	.9946	.9909	.9866	.9762	.9582	.9246	
50	1.0000	.9993	.9976	.9950	.9917	.9877	.9783	.9616	.9304	

TABLE II (Continued)

		P = 6					ALPHA = .100			
R		0	1	2	3	4	5	7	10	15
N										
5		.9984	.9900	.9767	.9606	.9450	.9347	.9333	.9433	.9552
6		.9986	.9908	.9785	.9633	.9467	.9315	.9189	.9280	.9427
7		.9986	.9915	.9800	.9658	.9498	.9333	.9099	.9125	.9298
8		.9987	.9921	.9814	.9679	.9529	.9367	.9071	.8978	.9165
9		.9988	.9926	.9825	.9699	.9555	.9402	.9088	.8858	.9032
10		.9989	.9931	.9836	.9716	.9580	.9433	.9125	.8785	.8898
12		.9991	.9938	.9853	.9745	.9621	.9488	.9203	.8778	.8637
14		.9991	.9944	.9867	.9768	.9655	.9533	.9268	.8856	.8435
16		.9992	.9949	.9878	.9788	.9684	.9570	.9325	.8937	.8366
18		.9993	.9953	.9888	.	.9708	.9602	.9373	.9008	.8410
20		.9993	.9957	.9896	.	.9729	.9630	.9414	.9070	.8492
25		.9994	.9964	.9912	.9746	.9770	.9684	.9497	.9195	.8678
30		.9995	.9969	.9924	.9867	.9799	.9725	.9560	.9290	.8824
35		.9995	.9972	.9933	.9883	.9823	.9756	.9608	.9366	.8940
40		.9996	.9975	.9940	.9895	.9841	.9781	.9648	.9427	.9035
45		.9997	.9978	.9946	.9904	.9856	.9801	.9679	.9477	.9115
50		.9997	.9980	.9951	.9913	.9868	.9818	.9706	.9519	.9182

		P = 6					ALPHA = .050			
R		0	1	2	3	4	5	7	10	15
N										
5		.9992	.9933	.9826	.9688	.9544	.9445	.9437	.9524	.9624
6		.9993	.9939	.9839	.9709	.9561	.9418	.9298	.9383	.9510
7		.9993	.9943	.9851	.9729	.9588	.9437	.9210	.9239	.9390
8		.9994	.9947	.9860	.9746	.9613	.9467	.9185	.9098	.9268
9		.9994	.9951	.9869	.9761	.9636	.9497	.9205	.8978	.9142
10		.9995	.9953	.9877	.9775	.9656	.9524	.9239	.8905	.9015
12		.9995	.9958	.9890	.9798	.9690	.9569	.9307	.8902	.8765
14		.9996	.9962	.9900	.9817	.9718	.9608	.9365	.8978	.8560
16		.9996	.9966	.9909	.9832	.9741	.9639	.9414	.9050	.8490
18		.9997	.9968	.9917	.9845	.9761	.9666	.9456	.9114	.8538
20		.9997	.9971	.9923	.9856	.9778	.9689	.9492	.9170	.8617
25		.9997	.9975	.9934	.9878	.9811	.9735	.9565	.9282	.8789
30		.9997	.9979	.9943	.9895	.9836	.9769	.9619	.9367	.8923
35		.9998	.9981	.9950	.9908	.9855	.9795	.9661	.9435	.9029
40		.9998	.9983	.9955	.9917	.9870	.9816	.9695	.9489	.9117
45		.9998	.9985	.9960	.9925	.9882	.9833	.9723	.9524	.9150
50		.9998	.9986	.9963	.9932	.9892	.9847	.9746	.9571	.9252

TABLE II (Continued)

		P = 6					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9996	.9955	.9867	.9748	.9616	.9523	.9519	.9594	.9680
6		.9997	.9958	.9878	.9766	.9633	.9500	.9387	.9466	.9576
7		.9997	.9961	.9886	.9782	.9657	.9519	.9300	.9331	.9465
8		.9997	.9964	.9894	.9796	.9678	.9546	.9279	.9196	.9350
9		.9997	.9966	.9901	.9809	.9697	.9572	.9299	.9079	.9232
10		.9997	.9968	.9906	.9820	.9713	.9594	.9331	.9005	.9112
12		.9998	.9972	.9916	.9838	.9742	.9633	.9392	.9007	.8871
14		.9998	.9974	.9924	.9853	.9765	.9666	.9443	.9077	.8667
16		.9998	.9977	.9931	.9865	.9785	.9693	.9486	.9143	.8597
18		.9998	.9978	.9936	.9876	.9801	.9716	.9522	.9201	.8647
20		.9998	.9980	.9941	.9885	.9815	.9735	.9555	.9251	.8722
25		.9998	.9983	.9950	.9903	.9843	.9775	.9618	.9353	.8882
30		.9999	.9986	.9957	.9915	.9864	.9804	.9666	.9430	.9005
35		.9999	.9987	.9962	.9925	.9879	.9826	.9703	.9491	.9104
40		.9999	.9989	.9966	.9933	.9892	.9844	.9733	.9540	.9185
45		.9999	.9990	.9969	.9939	.9902	.9859	.9757	.9580	.9253
50		.9999	.9991	.9972	.9945	.9911	.9870	.9778	.9615	.9311

		P = 6					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9972	.9906	.9808	.9693	.9605	.9605	.9668	.9738
6		.9998	.9974	.9913	.9822	.9708	.9587	.9483	.9552	.9645
7		.9998	.9976	.9919	.9834	.9727	.9605	.9399	.9430	.9545
8		.9999	.9978	.9925	.9845	.9744	.9628	.9380	.9304	.9439
9		.9999	.9979	.9930	.9854	.9759	.9649	.9401	.9190	.9329
10		.9999	.9980	.9934	.9852	.9772	.9668	.9430	.9117	.9217
12		.9999	.9982	.9940	.9876	.9795	.9700	.9482	.9122	.8989
14		.9999	.9984	.9946	.9888	.9813	.9726	.9525	.9186	.8787
16		.9999	.9985	.9951	.9897	.9829	.9749	.9562	.9245	.8718
18		.9999	.9987	.9955	.9906	.9842	.9768	.9594	.9296	.8769
20		.9999	.9988	.9958	.9912	.9853	.9784	.9621	.9341	.8878
25		1.0000	.9990	.9965	.9926	.9875	.9816	.9675	.9431	.8914
30		1.0000	.9991	.9970	.9936	.9892	.9840	.9716	.9499	.9097
35		1.0000	.9992	.9973	.9943	.9904	.9858	.9747	.9552	.9188
40		1.0000	.9993	.9976	.9949	.9914	.9872	.9773	.9595	.9261
45		1.0000	.9994	.9978	.9954	.9923	.9885	.9794	.9632	.9323
50		1.0000	.9994	.9980	.9958	.9929	.9894	.9810	.9661	.9375

TABLE II (Continued)

		P = 7					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9987	.9920	.9812	.9679	.9546	.9456	.9440	.9520	.9616
6		.9989	.9926	.9825	.9698	.9558	.9427	.9314	.9386	.9507
7		.9989	.9931	.9837	.9718	.9582	.9440	.9233	.9248	.9392
8		.9990	.9936	.9847	.9735	.9606	.9467	.9206	.9117	.9273
9		.9991	.9940	.9856	.9749	.9627	.9494	.9219	.9008	.9153
10		.9991	.9943	.9864	.9763	.9647	.9520	.9248	.8941	.9032
12		.9992	.9949	.9878	.9786	.9680	.9564	.9312	.8930	.8793
14		.9993	.9954	.9889	.9805	.9708	.9601	.9367	.8906	.8604
16		.9994	.9958	.9898	.9821	.9731	.9632	.9414	.9065	.8536
18		.9994	.9961	.9906	.9834	.9751	.9658	.9455	.9126	.8574
20		.9994	.9964	.9912	.9846	.9768	.9681	.9489	.9179	.8647
25		.9995	.9969	.9926	.9868	.9801	.9727	.9560	.9287	.8810
30		.9996	.9973	.9936	.9886	.9827	.9761	.9614	.9370	.8938
35		.9997	.9977	.9943	.9899	.9846	.9787	.9655	.9435	.9042
40		.9997	.9979	.9949	.9909	.9862	.9809	.9690	.9488	.9127
45		.9997	.9981	.9954	.9917	.9875	.9826	.9717	.9532	.9198
50		.9997	.9983	.9958	.9925	.9885	.9841	.9740	.9569	.9258

		P = 7					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9994	.9947	.9859	.9745	.9623	.9539	.9527	.9597	.9678
6		.9994	.9951	.9869	.9762	.9636	.9513	.9406	.9475	.9578
7		.9995	.9954	.9878	.9777	.9657	.9527	.9327	.9347	.9472
8		.9995	.9957	.9885	.9790	.9677	.9552	.9304	.9221	.9363
9		.9996	.9960	.9892	.9802	.9694	.9576	.9319	.9113	.9249
10		.9996	.9962	.9898	.9813	.9710	.9597	.9347	.9046	.9135
12		.9996	.9966	.9908	.9831	.9738	.9634	.9404	.9040	.8906
14		.9997	.9969	.9917	.9846	.9761	.9665	.9451	.9103	.8716
16		.9997	.9972	.9924	.9858	.9780	.9691	.9492	.9165	.8649
18		.9997	.9974	.9930	.9869	.9796	.9713	.9527	.9219	.8690
20		.9997	.9976	.9935	.9878	.9810	.9733	.9558	.9267	.8759
25		.9998	.9979	.9944	.9897	.9838	.9771	.9619	.9364	.8910
30		.9998	.9982	.9952	.9910	.9858	.9799	.9665	.9438	.9029
35		.9998	.9984	.9957	.9920	.9874	.9822	.9702	.9497	.9123
40		.9998	.9986	.9962	.9929	.9887	.9840	.9731	.9544	.9201
45		.9998	.9987	.9966	.9935	.9898	.9855	.9755	.9584	.9266
50		.9999	.9988	.9969	.9941	.9906	.9867	.9775	.9617	.9321

TABLE II (Continued)

		P = 7				ALPHA = .025				
	R	0	1	2	3	4	5	7	10	15
N										
5		.9997	.9964	.9893	.9795	.9684	.9604	.9597	.9657	.9726
6		.9997	.9966	.9901	.9808	.9697	.9582	.9482	.9545	.9635
7		.9997	.9969	.9908	.9820	.9715	.9597	.9405	.9427	.9537
8		.9998	.9970	.9913	.9831	.9731	.9618	.9384	.9307	.9435
9		.9998	.9972	.9918	.9841	.9746	.9638	.9400	.9201	.9328
10		.9998	.9974	.9923	.9850	.9759	.9657	.9427	.9134	.9220
12		.9998	.9977	.9931	.9864	.9782	.9688	.9476	.9131	.9001
14		.9998	.9979	.9937	.9876	.9801	.9715	.9519	.9191	.8811
16		.9998	.9981	.9942	.9886	.9817	.9737	.9554	.9247	.8744
18		.9998	.9982	.9947	.9895	.9831	.9756	.9585	.9297	.8788
20		.9998	.9983	.9950	.9902	.9842	.9773	.9612	.9339	.8853
25		.9999	.9986	.9958	.9917	.9865	.9805	.9666	.9427	.8993
30		.9999	.9988	.9963	.9928	.9883	.9829	.9707	.9494	.9103
35		.9999	.9989	.9967	.9936	.9896	.9849	.9739	.9547	.9191
40		.9999	.9991	.9971	.9942	.9906	.9864	.9765	.9590	.9263
45		.9999	.9991	.9973	.9948	.9915	.9876	.9785	.9626	.9323
50		.9999	.9992	.9976	.9952	.9922	.9887	.9803	.9655	.9375

		P = 7				ALPHA = .010				
	R	0	1	2	3	4	5	7	10	15
N										
5		.9999	.9978	.9924	.9843	.9747	.9672	.9669	.9719	.9776
6		.9999	.9979	.9930	.9854	.9758	.9655	.9563	.9618	.9694
7		.9999	.9980	.9934	.9853	.9773	.9669	.9489	.9511	.9606
8		.9999	.9982	.9938	.9871	.9787	.9687	.9472	.9400	.9512
9		.9999	.9983	.9942	.9879	.9798	.9704	.9488	.9298	.9414
10		.9999	.9984	.9945	.9885	.9809	.9719	.9511	.9231	.9312
12		.9999	.9985	.9951	.9896	.9827	.9745	.9554	.9232	.9106
14		.9999	.9987	.9955	.9906	.9842	.9767	.9590	.9287	.8920
16		.9999	.9988	.9959	.9914	.9854	.9785	.9620	.9337	.8854
18		.9999	.9989	.9962	.9920	.9865	.9801	.9647	.9380	.8897
20		1.0000	.9990	.9965	.9926	.9874	.9814	.9670	.9418	.8958
25		1.0000	.9991	.9970	.9937	.9893	.9841	.9716	.9496	.9086
30		1.0000	.9993	.9974	.9945	.9906	.9861	.9750	.9555	.9186
35		1.0000	.9993	.9977	.9951	.9917	.9877	.9778	.9602	.9266
40		1.0000	.9994	.9979	.9956	.9926	.9889	.9799	.9640	.9332
45		1.0000	.9995	.9981	.9960	.9933	.9899	.9818	.9671	.9387
50		1.0000	.9995	.9983	.9963	.9938	.9907	.9833	.9697	.9434

TABLE II (Continued)

		P = 8				ALPHA = .100			
R	0	1	2	3	4	5	7	10	15
N									
5	.9990	.9935	.9845	.9732	.9618	.9540	.9522	.9587	.9668
6	.9991	.9939	.9855	.9748	.9627	.9513	.9411	.9469	.9569
7	.9991	.9944	.9864	.9763	.9646	.9522	.9338	.9347	.9467
8	.9992	.9947	.9872	.9776	.9665	.9544	.9313	.9228	.9361
9	.9992	.9950	.9879	.9789	.9682	.9566	.9322	.9129	.9251
10	.9993	.9953	.9886	.9799	.9698	.9587	.9347	.9067	.9141
12	.9994	.9957	.9897	.9818	.9726	.9624	.9400	.9054	.8922
14	.9994	.9961	.9906	.9833	.9748	.9654	.9446	.9110	.8745
16	.9995	.9964	.9913	.9846	.9767	.9680	.9486	.9170	.8680
18	.9995	.9967	.9919	.9857	.9784	.9702	.9520	.9221	.8712
20	.9995	.9969	.9925	.9867	.9798	.9721	.9550	.9268	.8775
25	.9996	.9974	.9936	.9886	.9827	.9760	.9611	.9362	.8921
30	.9997	.9977	.9944	.9900	.9848	.9790	.9657	.9435	.9035
35	.9997	.9980	.9950	.9912	.9865	.9812	.9694	.9492	.9128
40	.9997	.9982	.9956	.9920	.9879	.9831	.9723	.9539	.9204
45	.9997	.9984	.9959	.9928	.9890	.9846	.9748	.9579	.9263
50	.9998	.9985	.9963	.9934	.9899	.9859	.9768	.9612	.9322

		P = 8				ALPHA = .050			
R	0	1	2	3	4	5	7	10	15
N									
5	.9995	.9956	.9884	.9787	.9684	.9610	.9597	.9653	.9721
6	.9996	.9959	.9891	.9800	.9693	.9587	.9491	.9546	.9632
7	.9996	.9962	.9898	.9812	.9710	.9597	.9420	.9433	.9538
8	.9996	.9964	.9904	.9823	.9726	.9617	.9398	.9320	.9439
9	.9996	.9966	.9909	.9832	.9740	.9636	.9410	.9223	.9337
10	.9997	.9968	.9915	.9841	.9753	.9653	.9433	.9159	.9233
12	.9997	.9971	.9923	.9856	.9776	.9684	.9480	.9151	.9023
14	.9997	.9974	.9929	.9868	.9794	.9709	.9520	.9206	.8846
16	.9997	.9976	.9935	.9878	.9810	.9732	.9555	.9259	.8781
18	.9998	.9977	.9940	.9887	.9823	.9750	.9584	.9305	.8817
20	.9998	.9979	.9944	.9895	.9835	.9766	.9610	.9346	.8877
25	.9998	.9982	.9952	.9910	.9858	.9799	.9663	.9431	.9011
30	.9998	.9984	.9958	.9922	.9876	.9823	.9704	.9496	.9117
35	.9998	.9986	.9963	.9931	.9890	.9843	.9735	.9548	.9201
40	.9998	.9988	.9967	.9937	.9901	.9859	.9760	.9590	.9272
45	.9999	.9989	.9970	.9943	.9910	.9871	.9781	.9625	.9330
50	.9999	.9990	.9973	.9948	.9917	.9882	.9799	.9654	.9380

TABLE II (Continued)

		P = 8					ALPHA = .025			
R		0	1	2	3	4	5	7	10	15
N										
5		.9998	.9970	.9912	.9829	.9735	.9665	.9656	.9705	.9763
6		.9998	.9972	.9918	.9840	.9745	.9646	.9556	.9607	.9682
7		.9998	.9974	.9923	.9850	.9759	.9656	.9488	.9502	.9594
8		.9998	.9976	.9927	.9858	.9772	.9674	.9488	.9395	.9502
9		.9998	.9977	.9931	.9865	.9784	.9690	.9480	.9299	.9407
10		.9998	.9978	.9935	.9872	.9795	.9705	.9502	.9237	.9308
12		.9998	.9980	.9941	.9884	.9813	.9731	.9543	.9232	.9108
14		.9998	.9982	.9946	.9894	.9829	.9753	.9579	.9283	.8932
16		.9998	.9984	.9951	.9903	.9842	.9771	.9609	.9332	.8868
18		.9999	.9985	.9955	.9909	.9853	.9787	.9635	.9374	.8905
20		.9999	.9986	.9958	.9915	.9863	.9801	.9659	.9411	.8963
25		.9999	.9988	.9964	.9928	.9883	.9829	.9705	.9488	.9087
30		.9999	.9989	.9969	.9937	.9897	.9850	.9740	.9546	.9185
35		.9999	.9991	.9972	.9944	.9908	.9867	.9768	.9593	.9264
40		.9999	.9992	.9975	.9950	.9917	.9879	.9793	.9630	.9328
45	1.0000	.9992	.9977	.9955	.9925	.9890	.9809	.9662	.9383	
50	1.0000	.9993	.9979	.9958	.9931	.9900	.9824	.9688	.9428	

		P = 8					ALPHA = .010			
R		0	1	2	3	4	5	7	10	15
N										
5		.9999	.9982	.9937	.9869	.9788	.9723	.9718	.9759	.9806
6		.9999	.9983	.9941	.9878	.9796	.9707	.9626	.9671	.9734
7		.9999	.9984	.9945	.9885	.9808	.9718	.9560	.9575	.9655
8		.9999	.9985	.9948	.9892	.9819	.9732	.9544	.9476	.9571
9		.9999	.9986	.9951	.9898	.9828	.9746	.9556	.9385	.9482
10		.9999	.9986	.9954	.9903	.9837	.9759	.9575	.9324	.9391
12		.9999	.9988	.9958	.9912	.9851	.9780	.9611	.9322	.9201
14		.9999	.9989	.9962	.9919	.9864	.9798	.9641	.9369	.9030
16	1.0000	.9990	.9965	.9926	.9874	.9813	.9667	.9411	.8966	
18	1.0000	.9991	.9968	.9931	.9883	.9826	.9690	.9449	.9005	
20	1.0000	.9991	.9970	.9936	.9891	.9837	.9709	.9482	.9058	
25	1.0000	.9993	.9974	.9945	.9906	.9860	.9749	.9549	.9172	
30	1.0000	.9994	.9978	.9952	.9918	.9878	.9779	.9601	.9260	
35	1.0000	.9994	.9980	.9957	.9928	.9891	.9803	.9642	.9332	
40	1.0000	.9995	.9982	.9961	.9935	.9902	.9822	.9675	.9391	
45	1.0000	.9995	.9984	.9965	.9941	.9911	.9837	.9703	.9440	
50	1.0000	.9996	.9985	.9968	.9946	.9918	.9850	.9726	.9482	



TABLE 11 (Continued)

		P = 9					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9992	.9946	.9870	.9773	.9675	.9606	.9588	.9641	.9708
6		.9992	.9950	.9878	.9785	.9680	.9581	.9489	.9536	.9621
7		.9993	.9953	.9885	.9798	.9696	.9588	.9423	.9427	.9528
8		.9993	.9955	.9891	.9809	.9712	.9605	.9399	.9319	.9432
9		.9994	.9956	.9897	.9818	.9726	.9624	.9406	.9229	.9333
10		.9994	.9960	.9902	.9827	.9739	.9641	.9427	.9171	.9231
12		.9994	.9964	.9911	.9842	.9762	.9671	.9471	.9157	.9029
14		.9995	.9967	.9919	.9855	.9781	.9697	.9511	.9205	.8864
16		.9995	.9969	.9925	.9866	.9796	.9719	.9544	.9256	.8801
18		.9995	.9972	.9930	.9875	.9810	.9738	.9574	.9302	.8828
20		.9996	.9973	.9935	.9884	.9823	.9754	.9600	.9342	.8885
25		.9997	.9977	.9944	.9900	.9847	.9787	.9652	.9425	.9015
30		.9997	.9980	.9951	.9912	.9865	.9813	.9693	.9489	.9118
35		.9997	.9983	.9956	.9922	.9880	.9833	.9725	.9540	.9201
40		.9998	.9984	.9961	.9930	.9892	.9849	.9751	.9582	.9270
45		.9998	.9986	.9964	.9936	.9901	.9862	.9773	.9617	.9328
50		.9998	.9987	.9967	.9941	.9909	.9873	.9790	.9646	.9377

		P = 9					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9996	.9964	.9902	.9820	.9731	.9665	.9653	.9698	.9755
6		.9996	.9966	.9909	.9830	.9737	.9644	.9558	.9603	.9676
7		.9997	.9968	.9914	.9840	.9751	.9653	.9494	.9502	.9591
8		.9997	.9970	.9919	.9848	.9764	.9668	.9473	.9400	.9502
9		.9997	.9971	.9923	.9856	.9776	.9684	.9483	.9311	.9409
10		.9997	.9973	.9927	.9863	.9786	.9698	.9502	.9254	.9314
12		.9997	.9975	.9934	.9875	.9805	.9724	.9542	.9244	.9121
14		.9998	.9977	.9939	.9886	.9820	.9746	.9576	.9290	.8956
16		.9998	.9979	.9944	.9894	.9834	.9764	.9615	.9336	.8894
18		.9998	.9981	.9948	.9902	.9845	.9780	.9631	.9377	.8924
20		.9998	.9982	.9951	.9909	.9855	.9794	.9653	.9413	.8978
25		.9998	.9984	.9958	.9921	.9875	.9822	.9699	.9487	.9098
30		.9998	.9986	.9963	.9931	.9890	.9843	.9734	.9545	.9192
35		.9999	.9988	.9968	.9939	.9902	.9860	.9762	.9590	.9269
40		.9999	.9989	.9971	.9945	.9912	.9873	.9784	.9628	.9332
45		.9999	.9990	.9973	.9950	.9920	.9885	.9803	.9659	.9385
50		.9999	.9991	.9976	.9954	.9926	.9894	.9819	.9685	.9430

TABLE II (Continued)

		P = 9					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9975	.9926	.9855	.9774	.9713	.9704	.9743	.9792
6		.9998	.9977	.9931	.9864	.9781	.9695	.9615	.9656	.9720
7		.9998	.9978	.9934	.9872	.9793	.9704	.9554	.9563	.9641
8		.9998	.9980	.9938	.9878	.9804	.9718	.9535	.9467	.9558
9		.9998	.9981	.9942	.9885	.9814	.9731	.9545	.9380	.9471
10		.9998	.9981	.9944	.9890	.9822	.9743	.9563	.9323	.9381
12		.9998	.9983	.9950	.9900	.9838	.9765	.9598	.9317	.9198
14		.9998	.9984	.9954	.9908	.9851	.9784	.9628	.9360	.9035
16		.9999	.9986	.9957	.9915	.9862	.9799	.9654	.9402	.8973
18		.9999	.9987	.9960	.9921	.9872	.9813	.9676	.9439	.9005
20		.9999	.9988	.9963	.9926	.9879	.9825	.9696	.9471	.9056
25		.9999	.9989	.9968	.9937	.9896	.9848	.9736	.9538	.9167
30		.9999	.9991	.9972	.9944	.9909	.9867	.9767	.9590	.9254
35		.9999	.9992	.9975	.9950	.9919	.9881	.9792	.9631	.9325
40		1.0000	.9993	.9978	.9955	.9926	.9892	.9811	.9665	.9384
45		1.0000	.9994	.9980	.9959	.9933	.9902	.9828	.9693	.9433
50		1.0000	.9994	.9981	.9962	.9939	.9910	.9841	.9716	.9475

		P = 9					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9999	.9985	.9947	.9890	.9819	.9763	.9757	.9790	.9830
6		.9999	.9986	.9951	.9897	.9826	.9748	.9675	.9712	.9765
7		.9999	.9986	.9953	.9902	.9835	.9757	.9617	.9627	.9695
8		.9999	.9987	.9956	.9908	.9844	.9769	.9601	.9539	.9619
9		.9999	.9988	.9958	.9912	.9852	.9780	.9612	.9456	.9539
10		.9999	.9988	.9960	.9917	.9859	.9790	.9627	.9400	.9456
12		1.0000	.9990	.9964	.9924	.9871	.9808	.9657	.9397	.9262
14		1.0000	.9990	.9967	.9930	.9881	.9823	.9683	.9436	.9123
16		1.0000	.9991	.9970	.9935	.9890	.9836	.9705	.9474	.9063
18		1.0000	.9992	.9972	.9940	.9897	.9847	.9724	.9506	.9096
20		1.0000	.9993	.9974	.9944	.9905	.9857	.9741	.9535	.9144
25		1.0000	.9994	.9977	.9952	.9918	.9876	.9776	.9593	.9244
30		1.0000	.9994	.9980	.9958	.9928	.9891	.9802	.9640	.9324
35		1.0000	.9995	.9983	.9962	.9936	.9903	.9823	.9676	.9388
40		1.0000	.9996	.9984	.9966	.9942	.9912	.9840	.9706	.9442
45		1.0000	.9996	.9985	.9969	.9947	.9920	.9853	.9730	.9486
50		1.0000	.9997	.9987	.9971	.9952	.9926	.9865	.9751	.9524

TABLE II (Continued)

		P = 10					ALPHA = .00			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9993	.9955	.9889	.9806	.9720	.9658	.9640	.9683	.9742
6		.9994	.9957	.9895	.9815	.9724	.9635	.9552	.9590	.9663
7		.9994	.9959	.9901	.9825	.9736	.9640	.9492	.9492	.9579
8		.9994	.9962	.9906	.9834	.9749	.9654	.9469	.9395	.9491
9		.9994	.9964	.9911	.9842	.9761	.9670	.9475	.9312	.9400
10		.9995	.9966	.9915	.9850	.9771	.9685	.9492	.9258	.9308
12		.9995	.9969	.9923	.9862	.9790	.9710	.9530	.9243	.9121
14		.9995	.9971	.9929	.9873	.9807	.9732	.9564	.9285	.8967
16		.9996	.9973	.9934	.9883	.9820	.9751	.9593	.9330	.8906
18		.9996	.9975	.9939	.9890	.9832	.9767	.9619	.9369	.8929
20		.9997	.9977	.9942	.9897	.9843	.9781	.9641	.9405	.8980
25		.9997	.9980	.9950	.9911	.9864	.9810	.9687	.9478	.9096
30		.9997	.9983	.9956	.9922	.9880	.9832	.9723	.9535	.9189
35		.9998	.9984	.9961	.9930	.9893	.9850	.9751	.9581	.9264
40		.9998	.9986	.9965	.9937	.9903	.9864	.9774	.9618	.9326
45		.9998	.9987	.9968	.9942	.9911	.9876	.9793	.9650	.9379
50		.9998	.9988	.9971	.9947	.9919	.9886	.9809	.9676	.9424

		P = 10					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9997	.9969	.9917	.9846	.9767	.9710	.9697	.9735	.9783
6		.9997	.9971	.9922	.9854	.9773	.9691	.9613	.9650	.9712
7		.9997	.9973	.9926	.9862	.9784	.9697	.9555	.9559	.9635
8		.9997	.9974	.9930	.9869	.9795	.9710	.9536	.9467	.9554
9		.9997	.9976	.9934	.9875	.9804	.9723	.9542	.9386	.9469
10		.9997	.9976	.9937	.9881	.9813	.9735	.9559	.9333	.9382
12		.9997	.9979	.9942	.9891	.9829	.9757	.9593	.9321	.9205
14		.9998	.9980	.9947	.9900	.9842	.9775	.9622	.9362	.9050
16		.9998	.9982	.9951	.9907	.9853	.9791	.9647	.9402	.8990
18		.9998	.9983	.9954	.9914	.9863	.9804	.9669	.9437	.9017
20		.9998	.9984	.9957	.9919	.9871	.9816	.9689	.9469	.9066
25		.9998	.9986	.9963	.9930	.9889	.9841	.9729	.9535	.9172
30		.9999	.9988	.9968	.9939	.9902	.9860	.9760	.9586	.9258
35		.9999	.9989	.9971	.9945	.9912	.9874	.9785	.9627	.9326
40		.9999	.9991	.9974	.9950	.9921	.9886	.9805	.9660	.9384
45		.9999	.9991	.9976	.9955	.9928	.9896	.9821	.9688	.9432
50		.9999	.9992	.9978	.9958	.9933	.9904	.9835	.9712	.9473

TABLE II (Continued)

		P = 10					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9979	.9937	.9876	.9805	.9751	.9742	.977	.9815
6		.9998	.9980	.9940	.9883	.9811	.9735	.9662	.9697	.9751
7		.9998	.9981	.9944	.9889	.9820	.9742	.9607	.9613	.9680
8		.9998	.9983	.9947	.9893	.9829	.9753	.9590	.9526	.9605
9		.9998	.9983	.9950	.9900	.9837	.9765	.9597	.9447	.9525
10		.9998	.9984	.9952	.9904	.9845	.9775	.9613	.9395	.9443
12		.9999	.9986	.9956	.9912	.9857	.9793	.9643	.9387	.9274
14		.9999	.9987	.9959	.9920	.9868	.9809	.9668	.9425	.9122
16		.9999	.9987	.9962	.9925	.9878	.9822	.9691	.9461	.9063
18		.9999	.9989	.9965	.9930	.9886	.9834	.9710	.9493	.9091
20		.9999	.9989	.9967	.9935	.9893	.9844	.9727	.9522	.9137
25		.9999	.9991	.9972	.9944	.9908	.9865	.9763	.9581	.9236
30		.9999	.9992	.9975	.9950	.9919	.9881	.9790	.9627	.9315
35	1.0000	.9993	.9978	.9956	.9927	.9893	.9811	.9664	.9379	
40	1.0000	.9994	.9980	.9960	.9934	.9903	.9829	.9694	.9431	
45	1.0000	.9994	.9982	.9964	.9940	.9912	.9843	.9720	.9476	
50	1.0000	.9995	.9983	.9967	.9945	.9919	.9856	.9741	.9514	

		P = 10					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9999	.9987	.9955	.9906	.9844	.9795	.9788	.9816	.9849
6		.9999	.9988	.9958	.9911	.9849	.9781	.9715	.9746	.9791
7		.9999	.9988	.9960	.9916	.9857	.9788	.9663	.9670	.9727
8		.9999	.9989	.9962	.9920	.9864	.9798	.9649	.9590	.9659
9	1.0000	.9990	.9964	.9924	.9871	.9807	.9657	.9514	.9586	
10	1.0000	.9990	.9966	.9927	.9876	.9816	.9670	.9464	.9510	
12	1.0000	.9991	.9969	.9931	.9887	.9831	.9696	.9459	.9351	
14	1.0000	.9992	.9971	.9939	.9895	.9843	.9718	.9493	.9203	
16	1.0000	.9993	.9974	.9943	.9903	.9854	.9737	.9525	.9145	
18	1.0000	.9993	.9975	.9947	.9909	.9864	.9753	.9554	.9174	
20	1.0000	.9994	.9977	.9950	.9915	.9872	.9768	.9579	.9216	
25	1.0000	.9994	.9980	.9957	.9927	.9889	.9798	.9632	.9307	
30	1.0000	.9995	.9983	.9962	.9936	.9902	.9821	.9672	.9378	
35	1.0000	.9996	.9984	.9966	.9942	.9913	.9840	.9704	.9437	
40	1.0000	.9996	.9986	.9969	.9948	.9921	.9854	.9731	.9485	
45	1.0000	.9997	.9987	.9972	.9953	.9923	.9867	.9753	.9525	
50	1.0000	.9997	.9988	.9974	.9957	.9933	.9877	.9772	.9560	

TABLE II (Continued)

		P = 11					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9994	.9961	.9904	.9831	.9756	.9701	.9663	.9720	.9769
6		.9994	.9963	.9909	.9839	.9758	.9680	.9604	.9636	.9698
7		.9995	.9965	.9914	.9848	.9768	.9687	.9549	.9546	.9622
8		.9995	.9967	.9919	.9855	.9779	.9695	.9528	.9451	.9541
9		.9995	.9969	.9922	.9862	.9789	.9708	.9532	.9382	.9458
10		.9995	.9970	.9926	.9868	.9798	.9720	.9546	.9332	.9373
12		.9996	.9972	.9932	.9878	.9815	.9742	.9579	.9316	.9200
14		.9996	.9975	.9937	.9887	.9828	.9761	.9608	.9353	.9055
16		.9997	.9977	.9942	.9895	.9840	.9777	.9634	.9392	.8996
18		.9997	.9978	.9945	.9902	.9850	.9791	.9656	.9427	.9017
20		.9997	.9980	.9949	.9908	.9859	.9803	.9676	.9458	.9062
25		.9997	.9982	.9956	.9920	.9878	.9829	.9716	.9524	.9167
30		.9998	.9984	.9961	.9930	.9892	.9848	.9748	.9574	.9251
35		.9998	.9986	.9966	.9937	.9903	.9864	.9773	.9616	.9319
40		.9998	.9987	.9969	.9943	.9912	.9876	.9794	.9649	.9376
45		.9998	.9989	.9972	.9940	.9920	.9887	.9811	.9678	.9424
50		.9998	.9989	.9973	.9952	.9926	.9896	.9826	.9702	.9465

		P = 11					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9997	.9974	.9929	.9866	.9798	.9746	.9733	.9766	.9806
6		.9997	.9975	.9932	.9873	.9802	.9728	.9658	.9689	.9742
7		.9998	.9976	.9936	.9879	.9810	.9733	.9606	.9607	.9672
8		.9998	.9978	.9939	.9885	.9819	.9744	.9587	.9523	.9598
9		.9998	.9979	.9942	.9890	.9827	.9755	.9592	.9448	.9521
10		.9998	.9979	.9944	.9896	.9835	.9766	.9607	.9399	.9440
12		.9998	.9981	.9950	.9904	.9848	.9784	.9635	.9387	.9275
14		.9998	.9983	.9953	.9911	.9859	.9800	.9661	.9422	.9132
16		.9999	.9984	.9957	.9918	.9869	.9813	.9683	.9458	.9075
18		.9999	.9985	.9959	.9923	.9878	.9825	.9702	.9489	.9098
20		.9999	.9986	.9962	.9928	.9885	.9835	.9719	.9517	.9141
25		.9999	.9988	.9967	.9937	.9900	.9856	.9755	.9575	.9237
30		.9999	.9990	.9971	.9944	.9911	.9873	.9782	.9621	.9315
35		.9999	.9991	.9974	.9950	.9921	.9886	.9804	.9658	.9377
40		.9999	.9992	.9977	.9955	.9928	.9897	.9822	.9688	.9429
45	1.0000	.9992	.9979	.9959	.9934	.9906	.9836	.9713	.9473	
50	1.0000	.9993	.9980	.9962	.9940	.9913	.9849	.9734	.9511	

TABLE II (Continued)

		P = 11					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9982	.9945	.9892	.9830	.9782	.9773	.9801	.9838
6		.9998	.9983	.9948	.9898	.9835	.9767	.9702	.9731	.9777
7		.9998	.9984	.9951	.9903	.9842	.9773	.9651	.9655	.9713
8		.9999	.9985	.9954	.9908	.9850	.9782	.9635	.9576	.9644
9		.9999	.9986	.9956	.9912	.9857	.9792	.9641	.9503	.9571
10		.9999	.9986	.9958	.9916	.9863	.9801	.9655	.9455	.9496
12		.9999	.9987	.9961	.9923	.9874	.9816	.9680	.9446	.9339
14		.9999	.9988	.9964	.9929	.9883	.9829	.9702	.9479	.9197
16		.9999	.9989	.9967	.9934	.9891	.9841	.9722	.9511	.9141
18		.9999	.9990	.9969	.9938	.9898	.9851	.9739	.9539	.9166
20		.9999	.9991	.9971	.9942	.9904	.9860	.9754	.9565	.9207
25		.9999	.9992	.9975	.9950	.9917	.9878	.9785	.9618	.9296
30	1.0000	.9993	.9978	.9956	.9926	.9892	.9859	.9809	.9659	.9367
35	1.0000	.9994	.9980	.9960	.9934	.9903	.9828	.9692	.9425	
40	1.0000	.9994	.9982	.9964	.9940	.9912	.9844	.9719	.9474	
45	1.0000	.9995	.9984	.9967	.9945	.9920	.9857	.9742	.9514	
50	1.0000	.9995	.9985	.9970	.9950	.9926	.9868	.9761	.9549	

		P = 11					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5		1.0000	.9989	.9962	.9918	.9864	.9820	.9814	.9837	.9865
6		1.0000	.9990	.9964	.9923	.9869	.9808	.9748	.9775	.9813
7		1.0000	.9990	.9965	.9926	.9875	.9814	.9701	.9706	.9755
8		1.0000	.9991	.9967	.9930	.9881	.9822	.9687	.9673	.9693
9		1.0000	.9991	.9969	.9933	.9886	.9829	.9694	.9564	.9626
10		1.0000	.9992	.9970	.9936	.9891	.9837	.9706	.9517	.9536
12		1.0000	.9992	.9973	.9942	.9900	.9849	.9728	.9512	.9409
14		1.0000	.9993	.9975	.9946	.9907	.9860	.9747	.9542	.9271
16		1.0000	.9993	.9977	.9950	.9913	.9870	.9763	.9570	.9217
18		1.0000	.9994	.9978	.9953	.9919	.9878	.9778	.9595	.9243
20		1.0000	.9994	.9979	.9956	.9924	.9885	.9791	.9617	.9281
25		1.0000	.9995	.9982	.9962	.9934	.9900	.9817	.9663	.9361
30		1.0000	.9996	.9984	.9965	.9941	.9912	.9838	.9700	.9426
35		1.0000	.9996	.9986	.9969	.9948	.9921	.9854	.9729	.9479
40		1.0000	.9997	.9987	.9973	.9953	.9928	.9867	.9753	.9523
45		1.0000	.9997	.9988	.9975	.9957	.9934	.9878	.9773	.9560
50		1.0000	.9997	.9989	.9977	.9960	.9939	.9888	.9790	.9592

TABLE II (Continued)

		P = 12					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9995	.9966	.9917	.9852	.9785	.9735	.9718	.9751	.9792
6		.9995	.9968	.9921	.9859	.9787	.9716	.9647	.9674	.9727
7		.9995	.9969	.9925	.9865	.9795	.9718	.9597	.9593	.9658
8		.9995	.9971	.9928	.9872	.9804	.9729	.9577	.9511	.9584
9		.9996	.9972	.9931	.9878	.9813	.9740	.9580	.9442	.9508
10		.9996	.9973	.9934	.9883	.9821	.9751	.9593	.9395	.9428
12		.9997	.9976	.9940	.9892	.9834	.9769	.9621	.9379	.9268
14		.9997	.9978	.9944	.9900	.9846	.9785	.9646	.9411	.9132
16		.9997	.9979	.9948	.9906	.9856	.9799	.9669	.9445	.9076
18		.9997	.9980	.9951	.9912	.9865	.9812	.9688	.9477	.9093
20		.9997	.9981	.9955	.9918	.9873	.9822	.9706	.9505	.9134
25		.9998	.9984	.9961	.9928	.9889	.9845	.9742	.9563	.9229
30		.9998	.9986	.9965	.9937	.9902	.9862	.9770	.9608	.9305
35		.9998	.9987	.9969	.9943	.9912	.9876	.9792	.9646	.9367
40		.9998	.9989	.9972	.9948	.9920	.9887	.9811	.9677	.9420
45		.9998	.9990	.9974	.9953	.9927	.9897	.9826	.9702	.9464
50		.9998	.9991	.9976	.9956	.9933	.9904	.9840	.9724	.9502

		P = 12					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9977	.9938	.9883	.9822	.9776	.9763	.9791	.9826
6		.9998	.9979	.9941	.9889	.9825	.9760	.9695	.9721	.9767
7		.9998	.9979	.9944	.9894	.9832	.9763	.9648	.9646	.9703
8		.9998	.9980	.9946	.9899	.9840	.9772	.9630	.9570	.9635
9		.9998	.9981	.9949	.9904	.9847	.9782	.9634	.9502	.9565
10		.9998	.9982	.9951	.9908	.9853	.9791	.9646	.9456	.9490
12		.9999	.9984	.9955	.9915	.9865	.9806	.9672	.9443	.9337
14		.9999	.9985	.9958	.9921	.9874	.9820	.9693	.9474	.9203
16		.9999	.9986	.9961	.9926	.9883	.9832	.9713	.9506	.9148
18		.9999	.9987	.9954	.9931	.9890	.9842	.9730	.9533	.9169
20		.9999	.9988	.9956	.9935	.9896	.9851	.9745	.9558	.9207
25		.9999	.9989	.9971	.9943	.9909	.9870	.9776	.9611	.9294
30		.9999	.9991	.9974	.9950	.9920	.9884	.9800	.9651	.9364
35		.9999	.9992	.9977	.9955	.9928	.9896	.9821	.9685	.9422
40		1.0000	.9992	.9979	.9959	.9935	.9905	.9836	.9712	.9469
45		1.0000	.9993	.9981	.9962	.9940	.9914	.9850	.9735	.9510
50		1.0000	.9994	.9982	.9965	.9945	.9920	.9861	.9755	.9545

TABLE II (Continued)

		P = 12					ALPHA = .025			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9984	.9953	.9903	.9851	.9808	.9798	.9822	.9852
6		.9999	.9985	.9955	.9911	.9854	.9794	.9734	.9759	.9799
7		.9999	.9986	.9958	.9915	.9861	.9798	.9688	.9690	.9740
8		.9999	.9987	.9959	.9919	.9867	.9806	.9674	.9618	.9677
9		.9999	.9987	.9961	.9922	.9873	.9814	.9679	.9552	.9610
10		.9999	.9988	.9963	.9926	.9878	.9822	.9690	.9507	.9541
12		.9999	.9989	.9966	.9931	.9887	.9836	.9712	.9497	.9395
14		.9999	.9990	.9969	.9936	.9895	.9847	.9731	.9526	.9263
16		.9999	.9991	.9970	.9940	.9903	.9857	.9748	.9555	.9209
18		.9999	.9991	.9972	.9945	.9909	.9865	.9763	.9580	.9231
20		.9999	.9992	.9974	.9948	.9914	.9873	.9776	.9602	.9268
25	1.0000	.9993	.9978	.9955	.9925	.9889	.9804	.9649	.9349	
30	1.0000	.9994	.9980	.9960	.9933	.9902	.9825	.9686	.9414	
35	1.0000	.9994	.9982	.9964	.9940	.9912	.9843	.9716	.9466	
40	1.0000	.9995	.9984	.9967	.9946	.9920	.9857	.9741	.9511	
45	1.0000	.9995	.9985	.9970	.9950	.9926	.9868	.9762	.9548	
50	1.0000	.9995	.9986	.9972	.9954	.9932	.9878	.9779	.9580	

		P = 12					ALPHA = .010			
	R	0	1	2	3	4	5	7	10	15
N										
5	1.0000	.9991	.9966	.9928	.9881	.9841	.9835	.9854	.9879	
6	1.0000	.9991	.9968	.9932	.9884	.9830	.9776	.9798	.9832	
7	1.0000	.9992	.9970	.9935	.9889	.9835	.9733	.9736	.9779	
8	1.0000	.9992	.9971	.9938	.9894	.9841	.9720	.9670	.9722	
9	1.0000	.9992	.9972	.9941	.9899	.9848	.9726	.9606	.9661	
10	1.0000	.9993	.9974	.9943	.9903	.9854	.9736	.9563	.9596	
12	1.0000	.9993	.9976	.9948	.9910	.9865	.9755	.9556	.9460	
14	1.0000	.9994	.9978	.9952	.9917	.9875	.9772	.9583	.9331	
16	1.0000	.9994	.9979	.9955	.9923	.9883	.9786	.9608	.9279	
18	1.0000	.9995	.9980	.9958	.9927	.9890	.9799	.9630	.9302	
20	1.0000	.9995	.9982	.9960	.9932	.9896	.9810	.9650	.9336	
25	1.0000	.9996	.9984	.9965	.9941	.9909	.9833	.9691	.9409	
30	1.0000	.9996	.9986	.9969	.9947	.9920	.9852	.9724	.9463	
35	1.0000	.9997	.9987	.9973	.9953	.9928	.9866	.9750	.9516	
40	1.0000	.9997	.9988	.9975	.9957	.9934	.9878	.9772	.9556	
45	1.0000	.9997	.9990	.9977	.9961	.9940	.9888	.9791	.9591	
50	1.0000	.9997	.9991	.9979	.9963	.9945	.9897	.9806	.9619	



TABLE II (Continued)

		P = 13					ALPHA = .100			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9995	.9970	.9926	.9870	.9809	.9765	.9748	.9776	.9812
6		.9996	.9972	.9930	.9875	.9810	.9747	.9683	.9706	.9753
7		.9995	.9973	.9934	.9881	.9818	.9748	.9638	.9632	.9689
8		.9996	.9974	.9936	.9886	.9825	.9757	.9619	.9557	.9621
9		.9996	.9975	.9939	.9891	.9832	.9767	.9621	.9492	.9550
10		.9997	.9977	.9942	.9895	.9839	.9776	.9632	.9449	.9477
12		.9997	.9978	.9946	.9903	.9851	.9792	.9657	.9433	.9327
14		.9997	.9980	.9950	.9910	.9861	.9806	.9679	.9461	.9200
16		.9997	.9981	.9953	.9916	.9870	.9818	.9698	.9492	.9146
18		.9997	.9983	.9956	.9921	.9878	.9829	.9716	.9520	.9161
20		.9997	.9984	.9959	.9926	.9885	.9839	.9731	.9545	.9198
25		.9998	.9986	.9964	.9935	.9900	.9859	.9763	.9597	.9284
30		.9998	.9987	.9968	.9942	.9911	.9874	.9789	.9638	.9353
35		.9998	.9989	.9972	.9948	.9920	.9886	.9809	.9673	.9411
40		.9998	.9990	.9974	.9953	.9927	.9897	.9826	.9700	.9458
45		.9998	.9991	.9977	.9957	.9933	.9905	.9849	.9724	.9499
50		.9998	.9991	.9978	.9960	.9938	.9912	.9852	.9744	.9534

		P = 13					ALPHA = .050			
	R	0	1	2	3	4	5	7	10	15
N										
5		.9998	.9980	.9945	.9897	.9842	.9801	.9788	.9812	.9842
6		.9998	.9981	.9948	.9901	.9845	.9786	.9727	.9749	.9789
7		.9998	.9982	.9950	.9906	.9851	.9788	.9683	.9681	.9730
8		.9998	.9983	.9953	.9910	.9857	.9796	.9667	.9610	.9668
9		.9998	.9983	.9955	.9914	.9863	.9804	.9670	.9547	.9602
10		.9999	.9984	.9957	.9918	.9869	.9812	.9681	.9505	.9534
12		.9999	.9985	.9960	.9924	.9878	.9826	.9702	.9493	.9392
14		.9999	.9986	.9963	.9929	.9887	.9837	.9722	.9519	.9265
16		.9999	.9987	.9965	.9934	.9894	.9848	.9739	.9548	.9213
18		.9999	.9988	.9967	.9938	.9900	.9857	.9754	.9572	.9231
20		.9999	.9989	.9969	.9941	.9906	.9864	.9767	.9594	.9266
25		.9999	.9990	.9973	.9949	.9918	.9881	.9795	.9641	.9345
30		.9999	.9992	.9976	.9954	.9927	.9894	.9817	.9678	.9408
35		1.0000	.9992	.9979	.9959	.9934	.9905	.9835	.9708	.9461
40		1.0000	.9993	.9981	.9962	.9940	.9914	.9849	.9733	.9505
45		1.0000	.9994	.9983	.9966	.9945	.9921	.9862	.9754	.9541
50		1.0000	.9994	.9984	.9969	.9949	.9926	.9872	.9772	.9574

TABLE II (Continued)

		P = 13					ALPHA = .025			
N	R	0	1	2	3	4	5	7	10	15
5		.9999	.9986	.9958	.9917	.9868	.9829	.9820	.9840	.9866
6		.9999	.9987	.9961	.9921	.9870	.9816	.9762	.9782	.9818
7		.9999	.9987	.9962	.9925	.9876	.9820	.9720	.9720	.9764
8		.9999	.9988	.9964	.9928	.9881	.9826	.9706	.9654	.9706
9		.9999	.9989	.9966	.9931	.9886	.9834	.9710	.9593	.9644
10		.9999	.9989	.9967	.9934	.9891	.9840	.9720	.9551	.9580
12		.9999	.9990	.9970	.9939	.9899	.9851	.9739	.9541	.9445
14		.9999	.9991	.9972	.9943	.9906	.9862	.9756	.9567	.9321
16		.9999	.9991	.9973	.9947	.9912	.9870	.9771	.9592	.9270
18		.9999	.9992	.9975	.9950	.9917	.9878	.9784	.9615	.9289
20	1.0000	.9992	.9977	.9953	.9922	.9885	.9855	.9796	.9635	.9322
25	1.0000	.9994	.9980	.9959	.9932	.9899	.9820	.9677	.9395	
30	1.0000	.9994	.9982	.9964	.9939	.9910	.9840	.9710	.9455	
35	1.0000	.9995	.9984	.9967	.9945	.9919	.9855	.9737	.9503	
40	1.0000	.9995	.9985	.9970	.9950	.9926	.9868	.9760	.9543	
45	1.0000	.9995	.9986	.9973	.9955	.9933	.9879	.9779	.9577	
50	1.0000	.9996	.9987	.9975	.9958	.9937	.9888	.9795	.9607	

		P = 13					ALPHA = .010			
N	R	0	1	2	3	4	5	7	10	15
5		1.0000	.9992	.9971	.9937	.9894	.9859	.9852	.9869	.9891
6		1.0000	.9992	.9972	.9940	.9897	.9848	.9799	.9818	.9847
7		1.0000	.9992	.9973	.9942	.9901	.9852	.9760	.9761	.9799
8		1.0000	.9993	.9975	.9945	.9906	.9858	.9748	.9701	.9746
9		1.0000	.9993	.9976	.9948	.9909	.9864	.9753	.9643	.9690
10		1.0000	.9993	.9977	.9949	.9913	.9869	.9761	.9602	.9631
12		1.0000	.9994	.9979	.9953	.9920	.9879	.9778	.9595	.9504
14		1.0000	.9994	.9980	.9957	.9925	.9887	.9793	.9619	.9383
16		1.0000	.9995	.9981	.9959	.9930	.9894	.9805	.9642	.9334
18		1.0000	.9995	.9982	.9962	.9934	.9900	.9816	.9661	.9355
20		1.0000	.9996	.9983	.9964	.9938	.9906	.9826	.9679	.9385
25		1.0000	.9996	.9985	.9969	.9946	.9917	.9847	.9716	.9452
30		1.0000	.9997	.9987	.9972	.9952	.9926	.9864	.9745	.9505
35		1.0000	.9997	.9988	.9975	.9957	.9934	.9877	.9769	.9550
40		1.0000	.9997	.9990	.9977	.9961	.9940	.9888	.9789	.9586
45		1.0000	.9997	.9991	.9979	.9964	.9945	.9897	.9806	.9617
50		1.0000	.9998	.9992	.9981	.9967	.9949	.9905	.9820	.9644

TABLE II (Continued)

		P = 14					ALPHA = .100			
R		0	1	2	3	4	5	7	10	15
N										
5		.9996	.9973	.9935	.9884	.9829	.9749	.9774	.9797	.9829
6		.9996	.9975	.9938	.9889	.9831	.9773	.9714	.9734	.9775
7		.9997	.9976	.9940	.9893	.9837	.9774	.9673	.9665	.9716
8		.9997	.9977	.9944	.9898	.9843	.9781	.9655	.9597	.9653
9		.9997	.9978	.9945	.9902	.9850	.9789	.9656	.9537	.9588
10		.9997	.9979	.9948	.9905	.9855	.9797	.9665	.9497	.9519
12		.9997	.9981	.9951	.9913	.9865	.9812	.9687	.9480	.9380
14		.9997	.9982	.9955	.9919	.9875	.9824	.9707	.9505	.9259
16		.9997	.9983	.9958	.9924	.9883	.9834	.9724	.9533	.9208
18		.9998	.9984	.9961	.9928	.9889	.9844	.9740	.9558	.9221
20		.9998	.9985	.9962	.9933	.9895	.9853	.9754	.9580	.9254
25		.9998	.9987	.9967	.9940	.9908	.9870	.9782	.9627	.9333
30		.9998	.9989	.9971	.9947	.9918	.9884	.9805	.9665	.9397
35		.9998	.9989	.9974	.9953	.9926	.9895	.9823	.9696	.9449
40		.9998	.9991	.9977	.9957	.9933	.9904	.9839	.9721	.9493
45		.9998	.9991	.9978	.9960	.9938	.9912	.9851	.9743	.9530
50		.9999	.9992	.9980	.9963	.9943	.9919	.9862	.9761	.9563

		P = 14					ALPHA = .050			
R		0	1	2	3	4	5	7	10	15
N										
5		.9998	.9982	.9951	.9908	.9859	.9821	.9809	.9830	.9857
6		.9998	.9984	.9954	.9912	.9860	.9807	.9754	.9772	.9808
7		.9999	.9984	.9956	.9916	.9866	.9809	.9714	.9710	.9754
8		.9999	.9984	.9958	.9919	.9872	.9816	.9698	.9645	.9696
9		.9999	.9985	.9959	.9923	.9877	.9823	.9701	.9587	.9635
10		.9999	.9986	.9961	.9926	.9882	.9830	.9710	.9547	.9571
12		.9999	.9987	.9964	.9931	.9890	.9842	.9729	.9535	.9439
14		.9999	.9988	.9966	.9936	.9897	.9852	.9746	.9559	.9320
16		.9999	.9989	.9969	.9940	.9904	.9862	.9761	.9584	.9270
18		.9999	.9990	.9971	.9943	.9909	.9869	.9775	.9606	.9286
20		.9999	.9990	.9972	.9947	.9914	.9876	.9787	.9626	.9318
25		.9999	.9991	.9976	.9953	.9925	.9891	.9811	.9668	.9390
30	1.0000	.9992	.9978	.9958	.9933	.9903	.9831	.9702	.9448	
35	1.0000	.9993	.9981	.9962	.9940	.9913	.9848	.9729	.9496	
40	1.0000	.9994	.9983	.9966	.9945	.9920	.9861	.9752	.9537	
45	1.0000	.9994	.9984	.9969	.9949	.9927	.9872	.9771	.9571	
50	1.0000	.9994	.9985	.9971	.9953	.9932	.9881	.9787	.9600	

TABLE II (Continued)

		P = 14				ALPHA = .025				
	R	0	1	2	3	4	5	7	10	15
N										
5		.9999	.9988	.9963	.9926	.9882	.9847	.9838	.9856	.9878
6		.9999	.9989	.9965	.9930	.9884	.9835	.9785	.9803	.9834
7		.9999	.9989	.9966	.9933	.9889	.9838	.9747	.9745	.9784
8		.9999	.9989	.9968	.9935	.9893	.9843	.9734	.9685	.9731
9		.9999	.9990	.9969	.9938	.9898	.9850	.9737	.9629	.9674
10		.9999	.9991	.9970	.9940	.9901	.9856	.9745	.9590	.9614
12		.9999	.9991	.9973	.9945	.9909	.9865	.9762	.9580	.9488
14		.9999	.9992	.9975	.9948	.9915	.9875	.9778	.9602	.9372
16		1.0000	.9992	.9976	.9951	.9920	.9882	.9791	.9625	.9323
18		1.0000	.9993	.9978	.9955	.9925	.9889	.9803	.9645	.9340
20		1.0000	.9993	.9979	.9957	.9929	.9895	.9813	.9663	.9370
25		1.0000	.9994	.9981	.9962	.9937	.9908	.9835	.9701	.9437
30		1.0000	.9995	.9984	.9967	.9944	.9917	.9852	.9731	.9491
35		1.0000	.9995	.9985	.9970	.9950	.9925	.986	.9756	.9535
40		1.0000	.9995	.9986	.9973	.9955	.9932	.987	.9777	.9572
45		1.0000	.9996	.9987	.9975	.9958	.9937	.9887	.9794	.9604
50		1.0000	.9997	.9989	.9977	.9961	.9942	.9896	.9809	.9632

		P = 14				ALPHA = .010				
	R	0	1	2	3	4	5	7	10	15
N										
5		1.0000	.9993	.9974	.9944	.9905	.9874	.9867	.9882	.9900
6		1.0000	.9993	.9975	.9946	.9908	.9864	.9819	.9836	.9861
7		1.0000	.9993	.9976	.9948	.9911	.9867	.9783	.9783	.9816
8		1.0000	.9993	.9977	.9951	.9915	.9872	.9772	.9728	.9768
9		1.0000	.9994	.9978	.9953	.9919	.9877	.9776	.9674	.9716
10		1.0000	.9994	.9979	.9955	.9922	.9882	.9783	.9637	.9661
12		1.0000	.9995	.9981	.9958	.9927	.9890	.9798	.9629	.9543
14		1.0000	.9995	.9982	.9961	.9932	.9897	.9811	.9651	.9430
16		1.0000	.9996	.9983	.9963	.9937	.9903	.9822	.9670	.9383
18		1.0000	.9996	.9984	.9965	.9940	.9909	.9832	.9688	.9401
20		1.0000	.9996	.9985	.9967	.9943	.9914	.9841	.9704	.9429
25		1.0000	.9997	.9987	.9971	.9950	.9924	.9859	.9737	.9489
30		1.0000	.9997	.9988	.9975	.9956	.9932	.9875	.9764	.9539
35		1.0000	.9997	.9990	.9977	.9960	.9939	.9886	.9786	.9579
40		1.0000	.9997	.9991	.9979	.9964	.9945	.9896	.9803	.9613
45		1.0000	.9998	.9992	.9981	.9967	.9949	.9904	.9819	.9641
50		1.0000	.9998	.9992	.9983	.9969	.9952	.9912	.9832	.9666